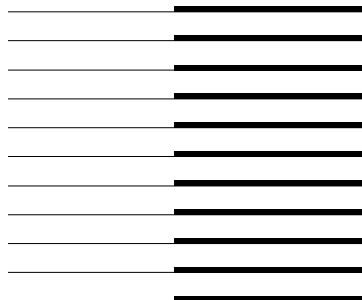




Océ 9400-I

User Manual





Océ-Technologies B.V.

This manual contains a description of the Océ 9400-II system and a detailed explanation of the plot functions. The introduction (chapter 1), gives a general description of the working methods employed in using the copier and we recommend that you read at least this chapter.

Overview of copier parts on the covers

To assist you in quickly identifying the various parts of the copier/printer and the functions on the operating panel, there is an illustration of the Océ 9400-II on the inside front cover and an illustration of the operating panel on the inside back cover, both of which can be folded out.

Safety information

This manual contains the following safety information:

- Appendix B lists 'Instructions for safe use'. *We advise you to read this information before you start to actually use the copier.* Technical safety information such as safety data sheets can also be found in appendix B.
- Where applicable, cautions and warnings are used throughout this manual to draw your attention to the safety precautions which you should follow.

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Chapter 1

Getting started

This chapter contains a general description of the Océ 9400-II and instructions on how to install the printer and prepare it for use. Also, it describes how to get the copier ready for copying operations.



The Océ 9400-II printer

The Océ 9400-II is the successor of the Océ 9400. It has an improved, faster controller and more memory.

The Océ 9400-II is a wide-format printing system. The machine is equipped with an automatic 1- or 2-roll dispenser. The Océ 9400-II prints on paper, transparencies, vellum, and polyester film. Its powerful digital technology offers users optimal ease of use and the reliability that you have come to expect of Océ.

The following are some of the features included in this machine:

- automatic language sensing and remote control
- centronics, Ethernet 10/100 Mb/s (TCP/IP), and SCSI interface (for the Scan-to-File option only)
- fast, high quality printing
- autoscaling of vector data
- media saver

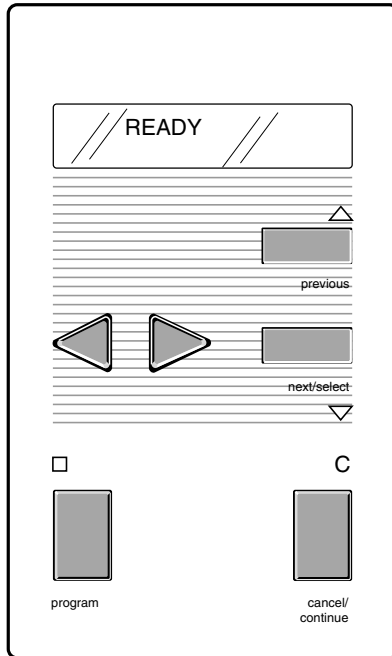
Optional features:

- automatic 2-roll unit
- memory extension modules
- compact output stacker
- PostScript level 2
- high-capacity delivery tray
- Océ 9400 scanner
- print server for Novell and Ethertalk
- Repro Desk print management software
- Scan-to-file software
- Océ 940 off-line folder

Note: *The optional features can vary from one country to another.*

The printer operating panel

The operating panel located on the right-hand side of the printer console is easy to use (see figure 1). The panel consists of buttons and a display.



[1] Printer operating panel

During normal operation, the printer can process print jobs and display the current printer status (e.g. 'READY' or 'RASTERIZING').

The buttons on the operating panel allow you to enter the Program mode and easily set up the printer according to your requirements.

Buttons

'Program' To activate the program mode and to enter the top level menu. In this mode, the user can use 'next/select' the 'previous' and ◀ or ▶ buttons to step through the menu.

Press 'Program' again. If no action takes place for 1 minute in Program mode, the machine will return to the status mode.

Note: *If you press the Program button while the printer is printing, the LED above the program button flashes. As soon as the printing process is ready, you will automatically enter the program mode. Keep in mind that the printer will not print in Program mode.*

'Next/select' To select an option or a setting in the menu. Or, if a submenu is present, enter a lower-level menu.

'Previous' Pressing this button takes you one level higher in the menu structure.

Browse buttons ◀ or ▶ These two buttons are used to select another mode at the same menu level, or to display the next or previous option from the option list.

'Cancel/continue' This button is used to cancel the present print job or to continue after an operator-recoverable error.

Display

The two-line LCD display provides status information on print jobs in normal mode, and displays menu items in Program mode.

The following messages may appear during normal operation:

Status messages indicates the actual status of the printer, e.g. 'READY', 'PROCESSING' etc.

Warning messages the printer will continue to operate during a warning message; however, it is likely that the print quality will not be optimal, e.g. 'REFILL TONER'.

Error messages The printer stops and the user must take action, e.g. 'PAPER JAM'.

Action messages An action message prompts the user to perform an action before the print job resumes. e.g. 'FEED SHEET' in the case of manual feed.

The Océ 9400-II copier

The Océ 9400-II is also a digital copier for large documents (such as architectural or engineering drawings). The machine is easy to use and makes copies on paper, transparencies, vellum and polyester film with the quality and reliability that you have come to expect from Océ.

To use the Océ 9400-II as a copier, a wide-format scanner must be connected to the printer. Please note that you can still send print jobs when the Océ 9400-II is used as a copier. The print jobs are processed after copying is finished.

The machine detects whether a user wants to print a document or make a copy, and automatically switches back to printing mode after 1 minute.

Image logic

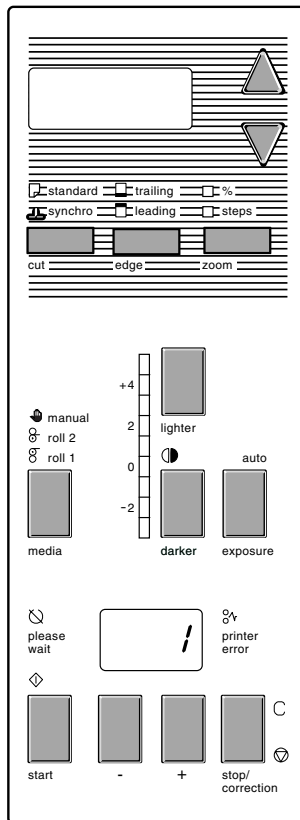
The Océ 9400-II copier makes use of Océ image logic technology. This technology ensures that the quality of every copy is automatically optimized.

Optional

Scan-to-file software (including Océ Scan Station and Océ View Station Océ Batch Processor software).

The scanner operating panel

The easy-to-use operating panel is located on the right-hand side of the scanner (see figur e2).



[2] Scanner operating panel

Stand-by mode

The operating panel (see the illustration on inside back cover) on the Océ 9400-II is easy to use and has been specially designed to perform copy jobs.

After switching on the scanner, (see page 18), the machine is ready for continuous operation. In this state, the operating panel is in stand-by mode, which is a low-power mode. The operating panel is activated in the following situations:

- when you feed in an original
- when you press a button on the operating panel

Note: *If you do not use the operating panel for more than 1 minute and no original is fed in, the machine automatically returns to stand-by mode. The Océ 9400-II, however, always remains ready for operation. However, if the original remains in the scanner feed table, the operating panel returns to stand-by mode after 2.5 minutes. The settings will remain unchanged.*

Buttons and functions

Start button The copy process starts with the current settings. Once you have pressed the start button, you cannot change the settings for copies that are being processed, except by making use of the 'stop/correction' button.

-/+ button Press these buttons to increase or decrease the number of copies. The copy quantity can be changed at any time. It can be adjusted from 1 to 19 copies.

Stop/Correction button This button has two functions: to stop the original during transport, or to correct the selected settings.

- Before starting the copying process:
If you press this button once: The number of copies selected is erased and the default value of '1' is displayed. All other settings remain unchanged.
If you press this button twice: All selected settings will also be erased and reset to their default settings. The number of copies selected will revert to '1', if it has not already done so. If required, you can select new settings.

■ **During the copying process:**

If you press this button while an original is being fed in, the process will stop immediately. If you want to abort a multi-copy job after the scanning of the original is finished, you must abort the copying process by pressing the 'cancel/continue' button on the printer. You must open the top cover of the scanner to remove the original ('Clearing original jam' on page e124).

Media button This button allows you to choose the copy material input. Possible input selections are Roll 1, Roll 2, or Manual feed.

Exposure scale You modify the exposure level with the 'lighter' and 'darker' buttons. The exposure level can be changed at any time.

Auto-exposure button Automatic Background Compensation can be switched on or off by using this button.

Cut button This button toggles between synchro cut mode and standard cut mode.

In synchro cut mode, the copy is cut to the length of the original.

In standard cut mode, the copy is cut to a standard length.

Edge button This button toggles between the leading and trailing edge. This allows you to add or remove a strip at the leading or trailing edge.

Zoom button You can vary the zoom factor with the range of 25% to 400%. A fixed increment or a percentage can be used.

Up/Down buttons When using zoom-, edge-, or the standard-cut modes, you can modify the values of these modes by pressing the up or down buttons.

Start indicator This indicator, located above the start button, indicates that the scanner is ready to perform a scan and turns off while the scanner is scanning an original. This is also the only indicator that is turned on while the scanner is in stand-by mode.

Please wait This indicator flashes when the user has pressed the start button, but the system is not ready to scan. This could be because the system is busy with a multi-copy job, or because the system is processing a print job.

Printer error This indicator activates if there is a printer error. Check the operating panel of the printer for the error message.

Turning the copier on and off

Switching on the copier involves:

- turning on the scanner
- turning on the printer (see page 20).

Once the system has been turned on, it is ready for operation. In this state, the machine is in stand-by mode. There is no need to turn it off after each copy job. You can leave the copier turned on for the rest of the day. The Océ 9400-II is ready for operation at all times.

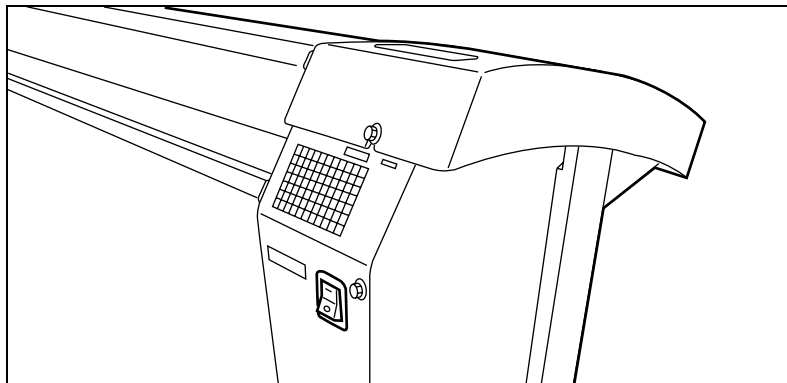
If the copier is idle for more than 1 minute, the operating panel automatically returns to stand-by mode. The scanner's operating panel is activated in the following situations:

- you feed in an original
- you press a button on the operating panel



Turning on the scanner

- 1 Set the on/off switch, located at the back of the scanner, to position '1' (see figur e3). If the electrical supply is correctly connected, the green switch will light up.



[3] Scanner on/off switch

Note: *The system is ready for use immediately. You can turn the scanner on and off independent of the printer, and you do not need to follow any particular order in doing so.*



Turning off the scanner

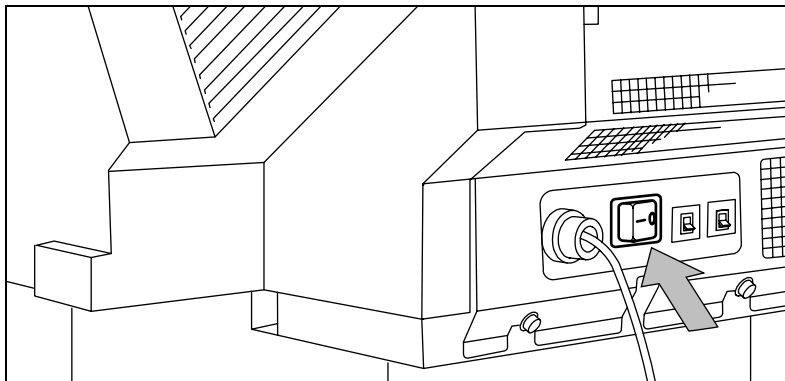
- 1 Set the on/off switch, located at the back of the scanner, to position '0' (see figure 3)

Switching the printer on/of

Once the printer has been switched on, it is ready for operation.

▼ Turning the printer o

- 1 Set the on/off switch, located at the back of the printer to position '1' (see figur e4). If the electrical supply is correctly connected, the green switch will light up.



[4] Printer on/off switch

Note: When 'Ready' appears on the operating panel, the printer is ready for use.

▼ Turning the printer off

- 2 Set the on/off switch, located at the back of the printer to position '0' (see figur e4).

Attention: Switching off the printer during a print job may cause a loss o information or a paper jam.

Chapter 2

Installing the printer

This chapter describes how to connect your printer to your host environment and how to configure the printer to meet your specific needs.



Connect the printer to your host environment

The Océ 9400-II supports several types of interfaces (Centronics, Ethernet 10 & 100 Mb/s, TCP/IP). Novell and Ethertalk are supported through the optional print server.

To ensure proper operation, please follow the steps below when connecting your host to the Océ 9400-II.

- 1 Make sure that both the host and the Océ 9400-II are turned OFF. See ‘Centronics’ on page 23 or ‘SCSI-2’ on page 25.
- 2 Connect the appropriate interface cable to your local host and the corresponding interface connector to the Océ 9400-II (see ‘Centronics’ on page 23 or ‘SCSI-2’ on page 25).
- 3 Turn on the Océ 9400-II (see ‘Centronics’ on page 23 or ‘Ethernet’ on page 27).
- 4 Enter the Program mode to configure the connection parameters (see ‘Centronics’ on page 23, ‘Ethernet’ on page 27 or ‘SCSI-2’ on page 25).
- 5 Enter Program mode to configure the Océ 9400-II to meet your requirements (see ‘Printing files’ on page 70 or ‘Customizing the printer’ on page 79).
- 6 Exit Program mode. If applicable, install and configure the appropriate host software on your local host environment.
- 7 Turn the printer OFF and then ON again.

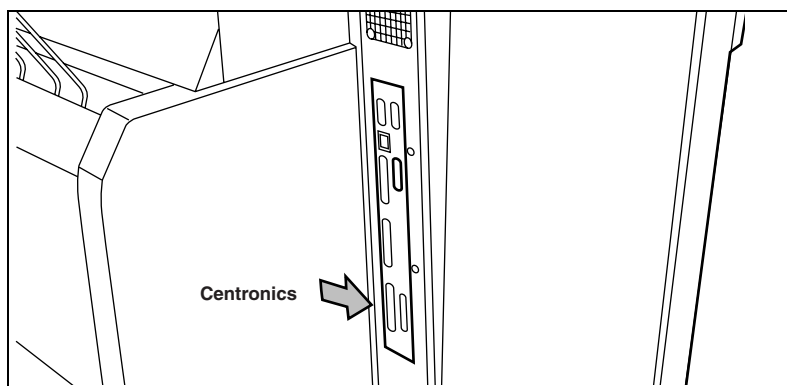
Note: When specifying connection settings, you must switch the printer Off and On again to activate your new parameters. *Tip: configure all settings at the same time, then turn the printer Off and On.*

Centronics

Connection through the Centronics interface is straightforward and data transfer is fast. You must set two parameters: the transmission type and the plot time-out.

▼ Connecting Centronics

- 1 Turn off the printer and host.
- 2 Connect one end of the Centronics cable to the computer's Centronics parallel port.
- 3 Connect the other end to the printer's Centronics parallel port (see figure 5).





[5] Centronics port

- 4 Turn the printer on.

▼ Defining transmission typ

You can choose to enable the IEEE P1284 ECP mode (enabled) or force the use of the IEEE P1284 Compatible mode (disabled). The default is "disabled".

In certain host environments, the ECP mode does not work correctly and the Océ 9400-II offers you the option to use the so-called compatible mode (ECP mode disabled). Note that if your host allows this mode, ECP mode is faster than compatible mode. The default is ECP disabled.

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONNECTIONS' menu using the  button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'CONNECTIONS' menu using the  button.

- 5 Press 'next/select' to enter the 'CONNECTION' menu.
- 6 Select the 'CENTRONICS' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'CENTRONICS' menu.
- 8 Select the 'ECP' mode using the ◀ ▶ button.
- 9 Press 'next/select' to enter the 'ECP' menu.
- 10 Select the required setting using the ◀ ▶ button.
- 11 Press 'next/select' to confirm the selected type.
- 12 Press 'Program' to exit the main menu.



Defining the end-of-plot time-out

Normally, print files end with an instruction that tells the printer that the file is finished.

However, some print data files do not have an end-of-print instruction. In this case, the print will be considered 'finished' when the printer stops receiving graphic commands over the Centronics interface.

The print time-out option sets the delay after which the print is considered finished. You can choose between 15, 30, 180, or 500 seconds. The default is 180.

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the ◀ ▶ button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'CONNECTION' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'CONNECTION' menu.
- 6 Select the 'CENTRONICS' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'CENTRONICS' menu.
- 8 Select the 'PLOT TIME OUT' item using the ◀ ▶ button.
- 9 Press 'next/select' to enter the 'PLOT TIME OUT' menu.
- 10 Select the required plot time-out using the ◀ ▶ button.
- 11 Press 'next/select' to confirm the selected plot time-out.
- 12 Press 'Program' to exit the main menu.

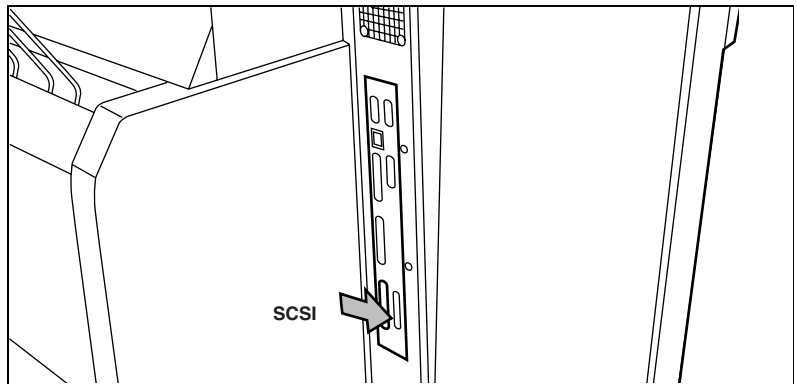
SCSI-2

If you are using the SCSI-2 port (for the scan-to-file option), you must configure two parameters; the SCSI-2 ID and the terminator.

Note: *The SCSI-2 port is used only for the scan-to-file option, which allow you to upload data from the controller to the connected PC.*

▼ Connecting SCSI-2

- 1 Turn off the printer and the host.
- 2 Connect one end of the SCSI-2 cable to the computer's SCSI-2 port.
- 3 Connect the other end to the printer's SCSI-2 port (see figure 6).







[6] SCSI-2 port

- 4 Switch on the printer and the host.

▼ Defining the SCSI-2 I

You can select a number between 0 and 7. The default is 0. Check the configuration of your computer to find an ID that is not being used by another device on the SCSI-2-bus to which you want to connect the Océ 9400-II.

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' menu using the  button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'CONNECTIONS' menu using the  button.
- 5 Press 'next/select' to enter the 'CONNECTION' menu.
- 6 Select the SCSI-2 item using the  or  button.
- 7 Press 'next/select' to enter the SCSI-2 menu.

- 8 Select the 'ID' item using the ◀ or ▶ button.
- 9 Press 'next/select' to enter the 'ID' menu.
- 10 Select the required 'ID' (a value from 0 to 7) using ◀ the ▶ button.
- 11 Press 'next/select' to confirm the selected 'ID'.
- 12 Press 'Program' to exit the main menu.
- 13 Switch the printer off and then on again to activate the configured settings.



Defining the terminato

The termination should be set to 'ON' if the Océ 9400-II is the last device on the SCSI-2 chain. It should be set to 'OFF' if it is placed between other devices.

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' menu using th ⏮ button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'CONNECTIONS' menu using th ⏮ button.
- 5 Press 'next/select' to enter the 'CONNECTION' menu.
- 6 Select the SCSI-2 item using t ⏮ button.
- 7 Press 'next/select' to enter the SCSI-2 menu.
- 8 Select the 'TERMINATION' item using the ◀ or ▶ button.
- 9 Press 'next/select' to enter the 'TERMINATION' menu.
- 10 Select 'ON/OFF' using the ◀ ⏮ r button.
- 11 Press 'next/select' to confirm the required selection.
- 12 Press 'Program' to exit the main menu.
- 13 Turn the printer off and then on again to activate the configured settings.

Ethernet

Your controller includes both an AUI transceiver connector (10 MB/s) and an RJ45 connector (10 or 100Mb/s). Ethernet connections can therefore use Thin or Thick Ethernet or UTP cabling.

Note: *We recommend using the RJ45 100 Mbit to achieve the highest possible performance.*

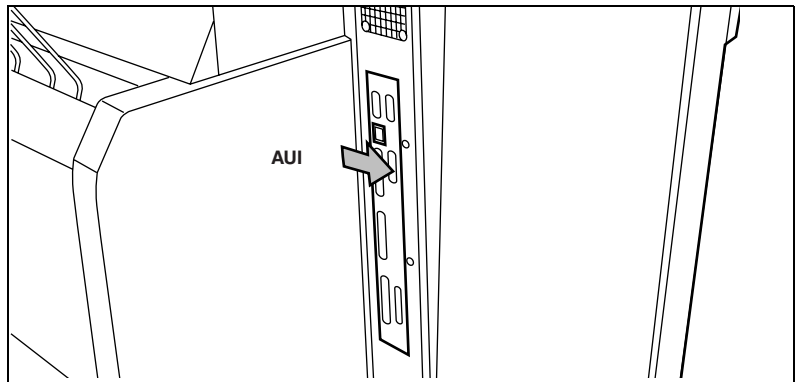
AUI: 10Mbit only

RJ45 (UTP): 10 & 100 Mbit (automatic adjustment).

Do not use the AUI and RJ45 simultaneously.

Ethernet cabling

An AUI (Attachment Unit Interface) connector is designed to connect a cable from the network interface card in your controller to a transceiver mounted on the backbone Ethernet cable. The backbone cable may be Thin or Thick Ethernet cable.



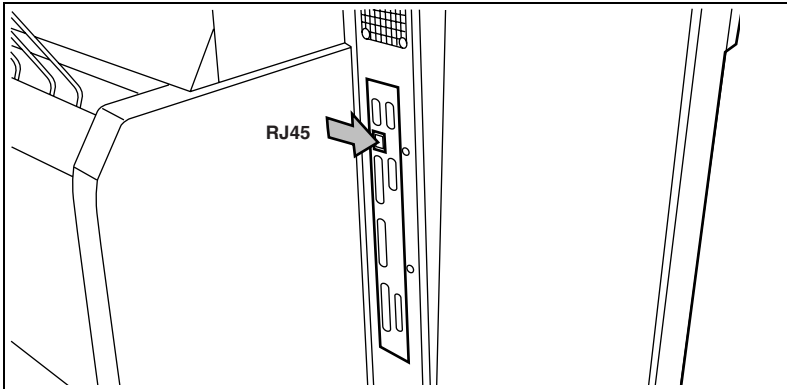
[7] AUI port

UTP (unshielded twisted pair) cable looks much like standard phone cable. The cable should have RJ45 plugs.

If you are using the Ethernet port, you will need to configure a list of parameters. All required parameters are described in the following procedures.

▼ **Connecting Ethernet**

- 1 Connect one end of the Ethernet cable to the computer's Ethernet port.
- 2 Connect the other end to the printer's Ethernet port (see figure 8).



[8] Ethernet port

▼ **Setting up the TCP/IP protocol**

You must configure the printer IP address, subnet mask and default gateway IP address (consult your local network administrator). Each of these four addresses is composed of 4 numeric fields ranging from 0 to 255. For example: 194.2.66.146 or 255.255.255.0. The menu presents these fields in the following order: field 0, field 1, field 2, field 3.

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' menu using the button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'CONNECTIONS' menu using the button.
- 5 Press 'next/select' to enter the 'CONNECTION' menu.
- 6 Select the 'ETHERNET' item using the or button.
- 7 Press 'next/select' to enter the 'ETHERNET' menu.
- 8 Select the 'IP ADDRESS' menu using the button.
- 9 Press 'next/select' to enter the 'IP ADDRESS' menu.
- 10 Select the 'FIELD0' menu using the button.
- 11 Press 'next/select' to enter the 'FIELD0' menu.
- 12 Enter the 'FIELD0' number of your 'IP ADDRESS' using the or button.

- 13 Press 'next/select' to confirm the required selection.
- 14 Press 'previous' to go up one level.
- 15 Repeat steps 10 to 14 for 'FIELD1, FIELD2, FIELD3'.
- 16 Press 'previous' to go up one level.
- 17 Select the 'SUBNET MASK' menu using the ◀ or ▶ button.
- 18 Press 'next/select' to enter the 'SUBNET MASK' menu.
- 19 Select the 'FIELD0' menu using the ◀ or ▶ button.
- 20 Press 'next/select' to enter the 'FIELD0' menu.
- 21 Press 'next/select' to confirm the required selection.
- 22 Enter the 'FIELD0' number of your 'SUBNET MASK' using the ⏏ button.
- 23 Press 'previous' to go up one level.
- 24 Repeat steps 19 to 23 for 'FIELD1, FIELD2, FIELD3'.
- 25 Press 'previous' to go up one level.
- 26 Select the 'DEF.GATEWAY' menu using the ⏏ button.
- 27 Press 'next/select' to enter the 'DEF.GATEWAY' menu.
- 28 Select the 'FIELD0' menu using the ◀ or ▶ button.
- 29 Press 'next/select' to confirm the required selection.
- 30 Press 'next/select' to enter the 'FIELD0' menu.
- 31 Enter the 'FIELD0' number of your 'DEF.GATEWAY' using the ◀ ▶ or button.
- 32 Press 'previous' to go up one level.
- 33 Repeat steps 28 to 32 for 'FIELD1, FIELD2, FIELD3'.
- 34 Press 'Program' to exit the main menu.
- 35 Turn the printer off/on to activate the configured Ethernet-ID.

Supported printing protocols

In addition to TCP/IP, the Océ 9400-II supports the following printing protocols: LPD, FTP, SMB (also known as LAN Manager or Windows networking). Simultaneous multiple protocols and users are supported.

Preferred printing solution

Windows network

- Use Windows printing through SMB to print directly to the printer from your workstation(s).
- If you experience problems connecting to the printer through SMB, or if you want to centralize printing on a server, you can install the printer on the server (for example, using a local connection to an lpr port) and then share it

to the rest of the network. You might want to do this if, for example, if you printer is to be accessed by several important clients.

TCP/IP network.

- TCP/IP is commonly used for the Unix, Win 95/98/NT and OS/2 operating systems. For Win 95/98, LPD is not standard and must be supplied by third parties. Contact your local service organization to determine the availability of third party shareware or freeware. Use lpd or ftp (in that order of preference).

Printing via LPD

Once the network connection for the Océ 9400-II has been set up (see 'Connect the printer to your host environment' on page 22), you can print via LPD.

Note: *The Line Printer Daemon (LPD) protocol has been implemented as specified in RCF 1179.*

The Océ 9400-II uses only one queue; thus, the queue name itself is not important and you are free to use any queue name you want (e.g. queue 1).

For configuring the client side, please contact your system administrator.
For Win NT: `lpr - Shostname - PqueueName (lpr -S194.2.66.146 -Pqueue1`

Printing via FTP

Once the network connection for the Océ 9400-II has been set up, you can print via FTP.

Note: *File Transfer protocol (FTP) has been implemented as specified in RFC 959. We are also web browser compatible, so the Océ 9400-II printer can be accessed like any Ftp site from your web browser.*



Printing via FT

Note: *Although FTP is not a standard printing protocol, you can send data files to a remote directory via FTP. This remote directory then allows the data files to be printed.*

- 1 Launch an FTP client.
- 2 Enter the 'ftp' command.
- 3 Open an FTP session with the printer using its address or the registered name (HOSTS or DNS).

Note: *Instead of performing steps 2 and 3, you could also enter "ft host_name" in the FTP client.*
- 4 Enter your user name (e.g. 'Guest').

A connection is now set up for the default user 'Guest'.
- 5 In order to be connected to the remote server, you must then validate the user connection by typing in the user password (e.g. 'Guest').

Note: *Because there is no registered user, you can simply press Enter to initiate the connection. The user name and password are not checked by the Océ 9400-II.*
- 6 Set the transmission mode to binary by entering 'binary'.
- 7 Enter the following command to go to the jobs directory: 'cd jobs'.
- 8 Go to the local directory where the information you want to print is stored (for example C:\DRAWINGS), by using the following command:
'lcd C:\DRAWINGS'.
- 9 Send the data file (for example: sample.hp) via the 'put' command:
'put sample.hp'.

Note: *The 'mput' command is also supported.*

The data is now sent to the controller's input spool directory, and is then processed and finally printed.
- 10 Quit FTP by entering the 'bye' or 'quit' command.

Note: *Two other directories are provided: Help and Status. Putting files in these directories will result in an ‘access denied’ message.*

Printing via SMB

The Océ 9400-II SMB supports printing for the following types of workstations:

- Windows 95/98
- Windows NT 4.0.

Setting up SMB on Windows 95/98 and NT

Once the Océ 9400-II has been configured for printing via SMB, you can make the Océ 9400-II available on Windows 95/98/NT. This involves the following steps:

▼ **Enabling the Océ 9400-II on Windows 95/98 and NT**

- 1 Log on to your workstation.
- 2 Double-click on the 'Network Neighborhood' icon on your Windows desktop.
- 3 Double-click on the workgroup to which the Océ 9400-II has been assigned.
- 4 Double-click on the device name for which the Océ 9400-II has been configured.

The list of shared print queues appears.

- 5 Double-click on the desired queue, or
Right-click on the desired queue, and then click on Install.
Select OCE 9400-IIPS to be associated with the Océ PS driver.
Select OCE 9400-II to be associated with the Océ Windows Raster driver.
You will be prompted to provide the driver.

Default values:

Workgroup:OCE-PRINTERS

Device Name:P-xxxxxxxxxxxx, where xxx is the Ethernet address of your printer (for example: P-08003E27E100).

Please contact your local service technician if you wish to modify these default values.

Note: *Make sure that you do not have two printers with the same device name.*

Troubleshooting

If the device cannot be accessed in the network neighborhood (either because the device cannot be opened or the workgroup the device belongs to does not appear), follow the procedure below:

- 1** Click on the "Start" icon.
- 2** Click on the "Find" icon.
- 3** Click on the "Computer..." icon.
- 4** Enter the device name of the Océ 9400-II machine and click on the "Find Now" icon.
- 5** When the device is found, follow the above procedure, beginning from step 4.

Set up the memory configuration

The printer's memory partitions can be configured based on the anticipated complexity of print jobs.

Input buffer

This option enables you to set the print spool input buffer size. You can select a small or large buffer. A small buffer leaves more memory available for processing more complex files. A large buffer frees the host machine sooner. The default is 'large'.

Files in the input buffer will be processed and printed in the same order they arrive.

▼ Setting the input buffer size

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'BUFFERS' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'BUFFERS' menu.
- 6 Select the 'INPUT BUFFER' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'INPUT BUFFER' menu.
- 8 Select the required input buffer size using the ◀ or ▶ button.
- 9 Press 'next/select' to confirm the selected size.
- 10 Press 'Program' to exit the main menu.

▼ Activating the new input buffer size

- 1 Switch the printer off and then on again.

Note: *If you do not restart the printer, the new memory allocation is not activated. Any print data in the printer's memory (files in the queue) will be lost when you turn off the printer.*

Bitmap buffer

This buffer defines a percentage of the total RAM memory that can be used as the bitmap partition. This value will be set between two values, depending on the RAM configuration.

The installed RAM can be divided into the following sections:

- bitmap partition
- processing area for files

The size of the bitmap partition determines the maximum length of the image to be printed on a given paper roll (or manual sheet).

The size of the buffer setting must be adjusted according to the type of roll you use and the print length of your file (or original).

There is no need to use a larger bitmap buffer than required. In fact, this may result in a loss of space for the processing area.

The minimum percentage always represents an E+ size. If you never print or copy files and/or originals that exceed the E+ length (48”), you must set the minimum Bitmap buffer percentage.

If you print or copy files and/or originals that exceed this length, you must set the correct Bitmap buffer size.

Use the following formula to determine the percentage setting: (Paper width * print length * conversion factor) / controller memory configuration.




Conversion factor = 1.08 (width and length in inches)
1.67 E-3 (width and length in mm).



Example: you print 70” on D+ paper and you have 64 MB of memory;
 $BM\% = 24 * 70 * 1.08 / 64 = 29\%$.

Example: you print 6 meters on an A0 paper and you have 128 MB of memory
 $BM\% = 841 * 6000 * 1.67E-3 / 128 = 66\%$.



Setting the bitmap buffer

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the  button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'BUFFERS' item using the  or  button.

- 5 Press 'next/select' to enter the 'BUFFER' menu.
- 6 Select the 'BITMAP BUFFER' item using the  button.
- 7 Press 'next/select' to enter the 'BITMAP BUFFER' menu
- 8 Select the required bitmap partition using the  button
- 9 Press 'next/select' to confirm the required partition.
- 10 Press 'Program' to exit the main menu.



Activating the new bitmap buffer size

- 1 Turn the printer off and then on again.

Note: *If you do not restart the printer, the new memory allocation is not activated. Any print data in the printer's memory will be lost when you turn off the printer.*

RAM	Min	Max
64	31 % (E+ paper)	71 % (2.92 meters [74"] on E+ paper)
128	16 % (E+ paper)	78 % (6.41 meters [163"] on E+ paper)
256	9 % (E+ paper)	84 % (13.82 meters [351"] on E+ paper)

Note: *The presented memory percentages are only an indication and may vary slightly from one firmware release to another.*

If you experience difficulties printing your files with these settings, you can try to change the value, taking into account the following guidelines:

- Increasing the bitmap buffer size decreases the processing area size.
- The size of the processing area determines your ability to process complex files (e.g. larger number of vectors).
- A high-percentage allocation to the bitmap partition allows printing of long plots without windowing.
- A low-percentage allocation to the bitmap partition enhances your ability to process very complex files (vector and raster).

Chapter 3

(Re)load media and toner






This chapter describes how to insert new media, how to add toner and how to program the media settings.



Inserting a new print material roll

Before using the copier for the first time, you must specify the order in which the paper formats appear on the scanner operating panel. You can do this by choosing between ISO, ANSI or ARCHITECT paper format on the printer operating panel.

▼ Setting the media format

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the  button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select 'PLOT MANAGER' using the   button.
- 5 Press 'next/select' to enter the 'PLOT MANAGER' menu.
- 6 Select 'MEDIA FORMAT' using the  button.
- 7 Press 'next/select' to enter the 'MEDIA FORMAT' menu.
- 8 Select the required format using the  button.
- 9 Press 'next/select' to confirm the selected format.
- 10 Press 'Program' to exit the main menu.

If the message 'ROLL EMPTY' appears in the display, you must load a new roll of print media. Depending on your configuration, you can reload roll 1 and/or roll 2.

Note: *After reloading, the plot is reprinted automatically.*

Automatic roll switching

If a roll becomes empty, the printer reports a roll empty error. When this happens, printing also stops. The printer clears the paper path and generates a message to indicate that the printer is ready to accept a new print command. If the correct material type and format is on the other roll, the printer will use that roll and will resume printing automatically.

If there is no match of material type and format, you must refill the empty roll.



Defining automatic roll switchin

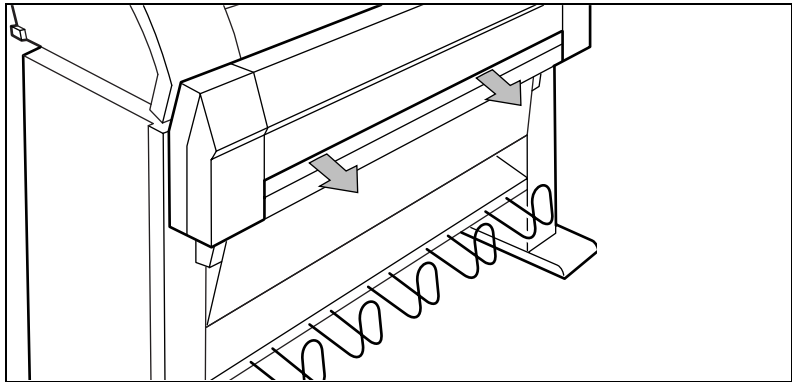
- 1 Press 'Program' to enter the main menu.
- 1 Select the 'MEDIA SETTINGS' item using the ◀ or ▶ button.
- 2 Press 'next/select' to enter the 'MEDIA SETTINGS' menu.
- 3 Select 'MEDIA MODE' using the ◀ ▶ or button.
- 4 Press 'next/select' to enter the 'MEDIA MODE' menu.
- 5 Select 'AUTO SWITCH' using the ◀ ▶ button.
- 6 Press 'next/select' to enter the 'AUTO SWITCH' menu.
- 7 Select the required setting 'On' or 'OFF' using the ◀ ▶ button.
- 8 Press 'next/select' to confirm the selected setting.
- 9 Press 'Program' to exit the main menu

Reloading rolls



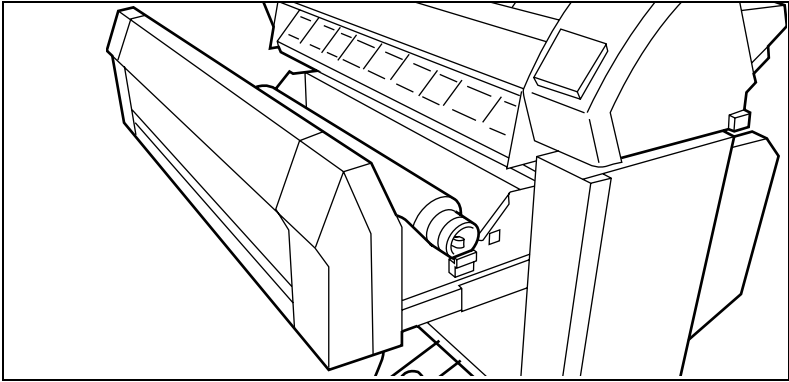
Reloading roll

- 1 Open the drawer completely (see figur e9).



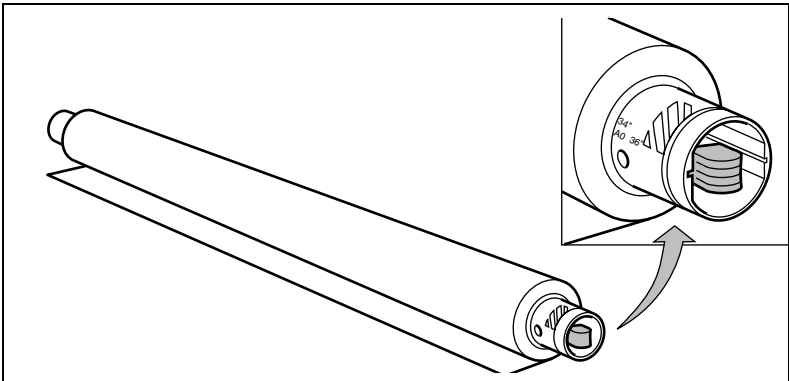
[9] Opening the drawer

- 2** Remove the roll holder from the drawer (see figure 10 on page 42)



[10] Removing the roll holder from the drawer

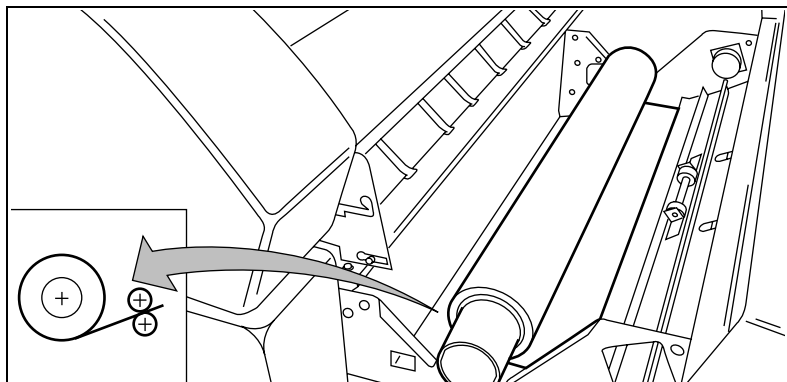
- 3** While pressing the knob, remove the empty core from the roll holder (see figure e11).
- 4** Slide the roll holder into the new roll of material while pressing the knob (see figure e11).
Make sure that the knob is to the right, and that paper appears as shown in figure 11.



[11] Pressing the knob

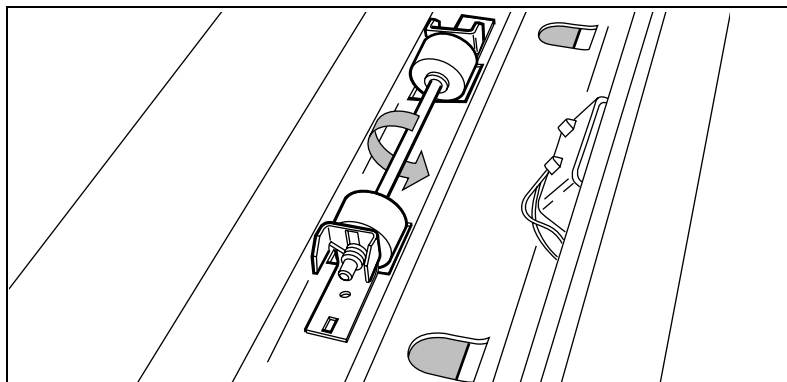
- 5** While pressing the knob, align the roll with the appropriate lines on the roll holder. This line must be completely visible.

- 6** Place the roll holder with the material in the drawer (see figure 12).



[12] Repositioning the roll

- 7** Feed the material between the input guide plates against the rollers.
- 8** Turn the rollers until the material is visible (see figure 13). You can also refer to the sticker inside the drawer.



[13] Feeding the material

- 9** If you have inserted a roll with a different material or of a different width, you must program the correct width and material type (see 'Programming media settings' on page e49).

If you want to cut the paper to get a straight leading edge, see 'Cutting the paper to get a straight leading edge' on page 44.



Otherwise, continue with the next step.

- 10** Close the drawer.
- 11** Press the 'Cancel/Continue' button.

Cutting the paper to get a straight leading edge

If the paper does not have a straight leading edge, you can cut it off at right angles from the roll.

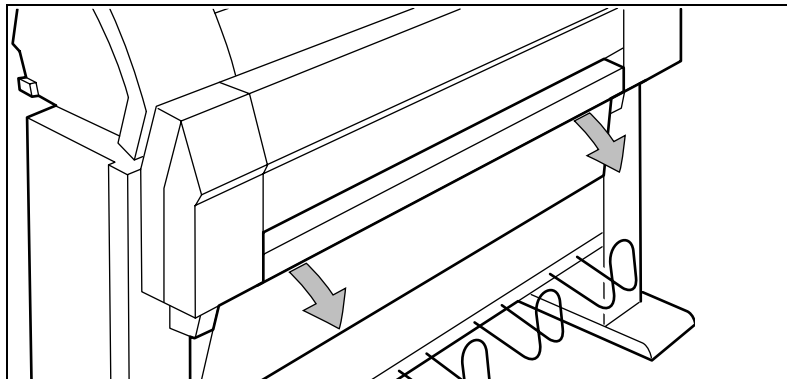
▼ Cutting the paper from roll 1 or roll

- 1 Open the drawer.
- 2 Feed the paper manually until it is approximately 5 cm above the top drawer.
- 3 Close the paper drawer.
- 4 Press 'Program' to enter the main menu.
- 5 Select the 'MEDIA SETTINGS' item using the  button.
- 6 Press 'next/select' to enter the 'MEDIA SETTINGS' menu.
- 7 Select 'CUT MEDIA' using the  button.
- 8 Press 'next/select' to cut the paper.
- 9 Open the paper drawer.
- 10 Remove the scrap of material.
- 11 Pull back the material until it is visible and positioned correctly (see figure 13 on page 43).
- 12 Close the drawer.
- 13 Press the button 'Cancel/Continue'.



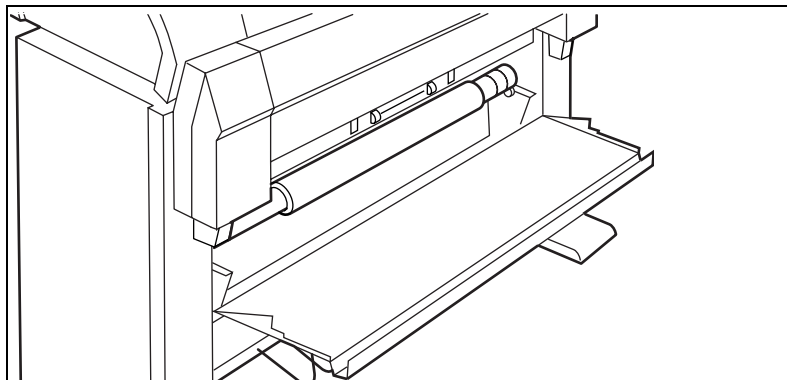
Reloading roll

- 1 Open the cover to get access to roll 2 (see figure 14).



[14] Opening the lower drawer

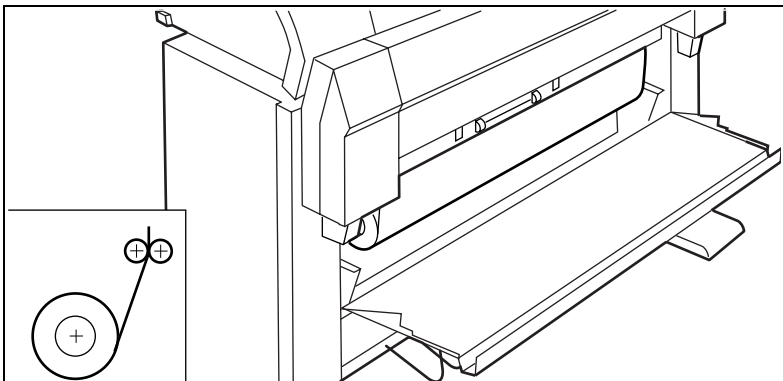
- 2 Remove the roll holder (see figure 15).



[15] Removing the roll holder from the lower drawer

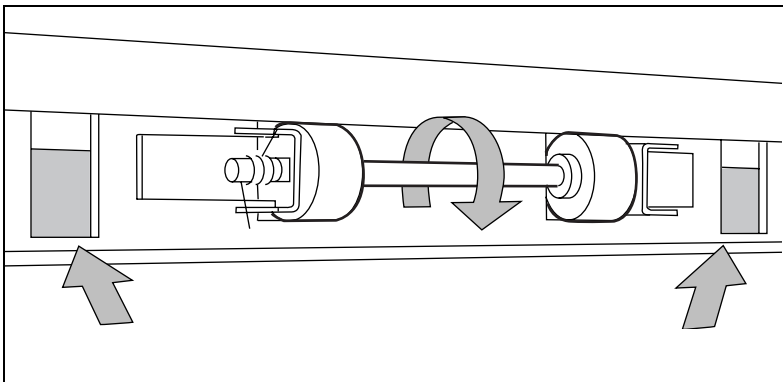
- 3 While pressing the knob, remove the empty core from the roll holder (see figure 11 on page 42).

- 4 While pressing the knob, slide the roll holder into the roll of print material (see figure 11 on page 42).
Make sure that the knob is to the right, and that the paper appears as shown in figure 11.
- 5 While pressing the knob, align the roll with the appropriate lines on the roll holder
- 6 Place the roll holder with the material in the lower paper compartment (see figure 16).



[16] Repositioning the roll

- 7 Feed the material between the input guide plates against the rollers. Turn the rollers until the material is visible (see figure 17). You can also refer to the sticker inside the drawer.



[17] Feeding the material

- 8 If you have inserted a roll with a different material or of a different width, you must program the correct width and material type (see 'Programming media settings' on page 49).

If you want to cut the paper to get a straight leading edge, see 'Cutting the paper to get a straight leading edge' on page 44.

Otherwise, continue with the next step.

- 9** Close the lower paper compartment.
- 10** Press the 'Cancel/Continue' button.

Printing using the manual feed

Manual feed can be selected in two ways:

- via remote control commands added to the print file (by means of Plot Director, drivers (see 'Use of the Scan-to-File option' on page 75).
- by changing the 'MEDIA MODE' in program mode.

If the user wants to use manual feed, he or she must:

- 1 program the media settings on the printer; see 'Programming media settings' on page 49 .
- 2 send the file.
- 3 wait until the message 'FEED SHEET' appears in the printer display.
- 4 feed a sheet of paper into the printer in portrait orientation.
- 5 hold the paper until the engine pulls in the first part of the sheet.

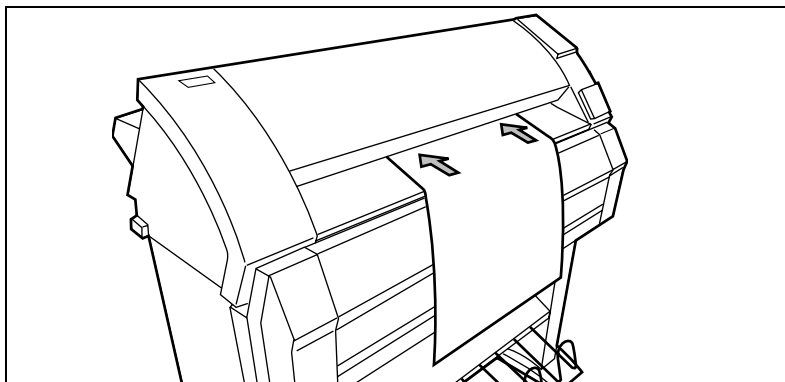
If the user has selected manual feed in a print file, the printer will ask the user, via the operating panel, to feed the sheet into the printer at the moment this job is processed. There will be a user-selectable time-out between 30 and 300 seconds for feeding the sheet. The default time-out is 60 seconds. See 'Setting the time-out for manual feed' on page 51. If the user does not feed the sheet within this time, the job is canceled and the next job is processed.



Inserting print material into the manual fee

- 1 Feed the print material centrally into the feed table in accordance with the guidelines (see figure 18).

Note: The minimum length of the print material is 420 mm (16.5").



[18] Manual feed

Programming media settings







If you have inserted a new roll with a different material or of a different width, you must program the new roll specifications. These specifications are:

- width of the material.
You can select A0 (841 mm), A1 (594 mm), A2 (420 mm), A3 (297), E (34"), D (22"), C (17"), B (11"), E+ (36"), D+ (24"), C+ (18"), B+ (12"), 30", 500 mm, 700 mm and B1 (707 mm). The default is 36".
- type of media.
- auto roll selection:
If you activate this function, the machine automatically selects the correct roll based on the size of the original.
- auto roll switch:
If you activate this function, the machine automatically switches to the other roll if the one in use becomes empty. The switch only takes place if the media type and material width are the same for both rolls.






Materials	Weight	Media type setting
<i>Plain paper</i>	<i>20 lb. bond</i>	paper
<i>Plain paper</i>	<i>27 lb. bond</i>	paper
<i>ECO papers</i>	<i>20 lb. bond</i>	paper
<i>Translucent paper</i>	<i>15 lb. bond</i>	translucent
<i>Transparencies</i>	<i>20/21 lb.</i>	transp <= 24 lb.
	<i>24/25 lb.</i>	transp <= 24 lb.
	<i>27/28 lb.</i>	transp 27 lb
<i>Polyester film</i>	<i>3.5 mil</i>	film <= 4 mil
<i>PPC film</i>	<i>3.5 mil</i>	film <= 4 mil
<i>PPC Type C Polyester film</i>	<i>3.5 mil</i>	film <= 4 mil
<i>Clear polyester film</i>	<i>4 mil</i>	film <= 4 mil
<i>Contrast film</i>	<i>3.5 mil</i>	film <= 4 mil
<i>Polyester film *</i>	<i>4.5 mil</i>	film 4.5 mil
<i>Vellum</i>	<i>20 lb</i>	vellum
<i>Vellum</i>	<i>16 lb</i>	vellum
<i>Contrast paper</i>	<i>34 lb</i>	paper
<i>Fluor paper</i>	<i>27 lb</i>	paper
<i>Pastel paper</i>	<i>20 lb</i>	paper

** The sticker on this polyester roll indicates '4 mil', but the thickness is really 4.5 mil.

▼ **Programming media width setting**







- 1 Press 'Program' to enter the main menu.
- 2 Select the 'MEDIA SETTINGS' item using the  button.
- 3 Press 'next/select' to enter the 'MEDIA SETTINGS' menu.
- 4 Select 'ROLL 1', 'ROLL 2', 'MANUAL FEED' using the  button.
- 5 Press 'next/select' to enter the 'ROLL' or 'MANUAL FEED' menu.
- 6 Select the 'WIDTH' item using the   button.
- 7 Press 'next/select' to enter the 'WIDTH' menu.
- 8 Select the desired width using the   button.
- 9 Press 'next/select' to confirm the selected width.
- 10 Press 'Program' to exit the main menu.

▼ **Programming media type setting**


- 1 Press 'Program' to enter the main menu.
- 2 Select the 'MEDIA SETTINGS' item using the  button.
- 3 Press 'next/select' to enter the 'MEDIA SETTINGS' menu.
- 4 Select 'ROLL 1', 'ROLL 2', 'MANUAL FEED' using the  button.
- 5 Press 'next/select' to enter the 'ROLL' or 'MANUAL FEED' menu.
- 6 Select the 'TYPE' item using the  button.
- 7 Press 'next/select' to enter the 'TYPE' menu.
- 8 Select the desired media type using the   button.
- 9 Press 'next/select' to confirm the selected media type.
- 10 Press 'Program' to exit the main menu.

▼ **Programming default paper feed**

The default is roll 1.

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'MEDIA SETTINGS' item using the  button.
- 3 Press 'next/select' to enter the 'MEDIA SETTINGS' menu.
- 4 Select 'MEDIA MODE' using the  button.
- 5 Press 'next/select' to enter the 'MEDIA MODE' menu.
- 6 Select the 'DEF. PAPER FEED' using the   button.
- 7 Press 'next/select' to enter the 'DEF. PAPER FEED' menu.
- 8 Select the default roll using the   button.
- 9 Press 'next/select' to confirm the selected mode.
- 10 Press 'Program' to exit the main menu.

▼ **Programming automatic roll selection**

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'MEDIA SETTINGS' item using the  button.
- 3 Press 'next/select' to enter the 'MEDIA SETTINGS' menu.

- 4 Select 'MEDIA MODE' using the ◀ ▶ r button.
- 5 Press 'next/select' to enter the 'MEDIA MODE' menu.
- 6 Select 'AUTO ROLL' using the ◀ ▶ r button.
- 7 Press 'next/select' to enter the 'AUTO ROLL' menu.
- 8 Select on or off using the ◀ or ▶ button.
- 9 Press 'next/select' to confirm the selected mode.
- 10 Press 'Program' to exit the main menu.



Programming automatic switching

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'MEDIA SETTINGS' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'MEDIA SETTINGS' menu.
- 4 Select 'MEDIA MODE' using the ◀ ▶ r button.
- 5 Press 'next/select' to enter the 'MEDIA MODE' menu.
- 6 Select 'AUTO SWITCH' using the ◀ ▶ r button.
- 7 Press 'next/select' to enter the 'AUTO SWITCH' menu.
- 8 Select on or off using the ◀ or ▶ button.
- 9 Press 'next/select' to confirm the selected mode.
- 10 Press 'Program' to exit the main menu.



Setting the time-out for manual feed

The default is 60 seconds.

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'MEDIA SETTINGS' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'MEDIA SETTINGS' menu.
- 4 Select 'MANUAL FEED' using the ◀ ▶ r button.
- 5 Press 'next/select' to enter the 'MANUAL FEED' menu.
- 6 Select the 'TIMEOUT' using the ◀ ▶ r button.
- 7 Press 'next/select' to enter the 'TIMEOUT' menu.
- 8 Select the desired time-out using the ◀ or ▶ button.
- 9 Press 'next/select' to confirm the selected time-out.
- 10 Press 'Program' to exit the main menu.

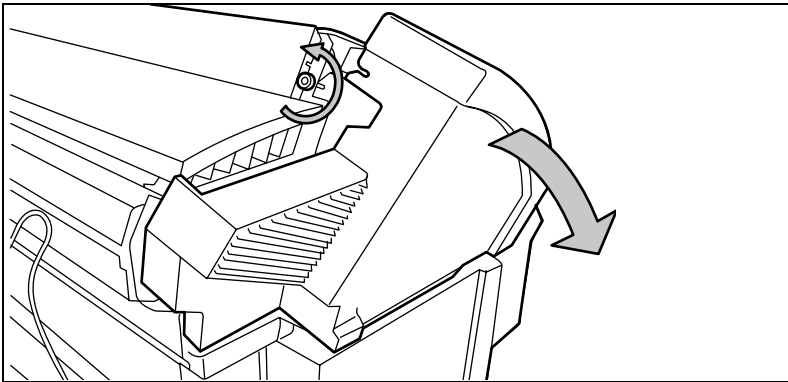
Refilling toner

If the message 'REFILL TONER' --- > Press Continue appears in the display, you must refill the toner immediately.

▼ Refilling tone

Attention: Use only Océ B4 toner (B4 toner is equivalent to Océ 9400 toner).

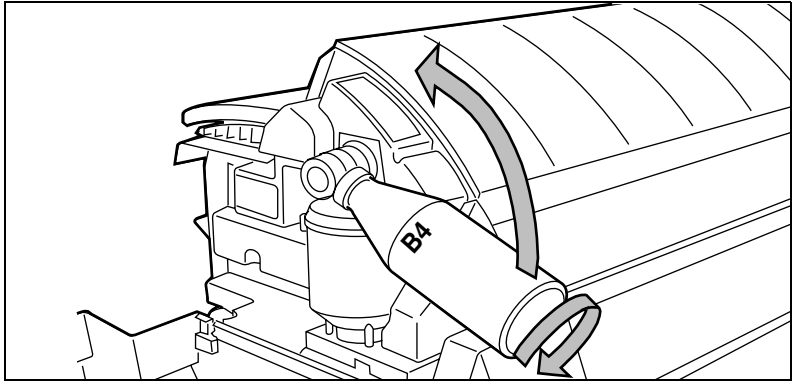
- 1 Unscrew the access nut on the left side of the printer and open the left cover (see figure 19)



[19] Unscrewing the access nut and opening the cover

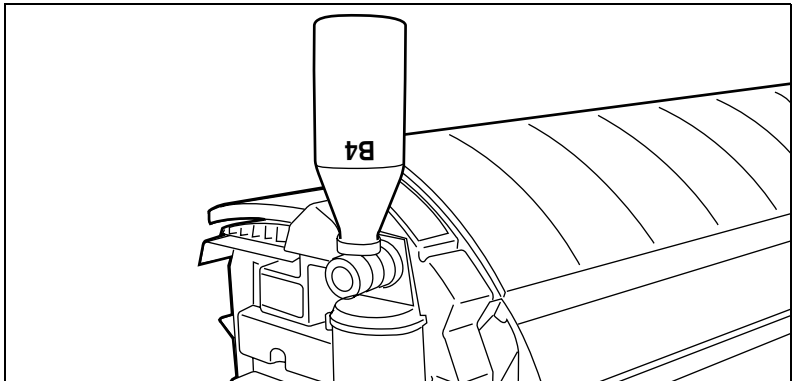
- 2 Shake the toner bottle thoroughly and then open it.

- 3 Screw the bottle in clockwise, in a slanted position (see figure 20).



[20] Screwing the bottle into place

- 4 Move the toner bottle to a vertical position (see figure 20) and 21).



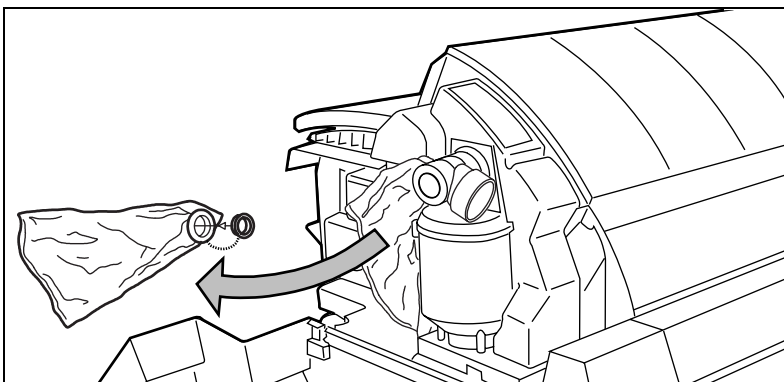
[21] Adding toner

- 5 Empty the toner out of the bottle by tapping it.
- 6 When the toner bottle is completely empty, return it to its original position.
- 7 Unscrew the toner bottle, turning it counter-clockwise.



Replacing the waste toner bag

- 8 Pull the waste toner bag from the holder and seal the bag with the cap provided (see figure 22)



[22] Replacing the waste toner bag

- 9 Slide a new waste toner bag over the holder.
- 10 Close the cover and tighten the access nut.
- 11 Press the 'Continue' button to resume printing.

Chapter 4

Copy jobs

This chapter describes how to make copies



Introduction

With the Océ 9400-II, you can make copies on paper, transparencies, vellum and polyester film; Océ's Image Logic Technology ensures optimal copy quality.

Depending on its configuration, your system will be equipped with a 1- or 2-roll dispenser. The 'media' button allows you to select the roll that you want to copy from, or feed a sheet of paper manually.

With the Océ 9400-II you can make 1:1 copies and reduce or enlarge your original from 25% to 400%. You can set the zoom in fixed steps or in % steps. The default setting is 100%.

The Océ 9400-II cuts the paper to the length of the original; this is called synchro cut. Or, if you have selected the standard cut mode, the copy is cut to a standard length, (see 'Copying using synchro or standard cut' on page 62).

The automatic exposure setting ensures the production of background-free copies from most line-drawings. If you have an extremely dark or light original, or an original with pasted parts or photographs, you may have to manually adjust the exposure setting (see 'Modifying the exposure' on page 67).

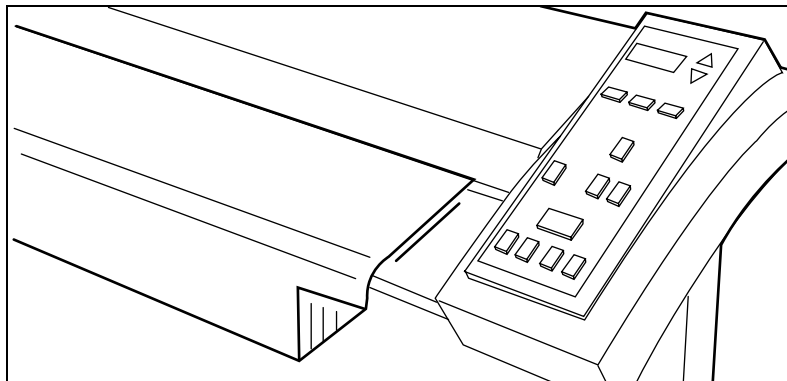
Making copies

The copying process starts after you press the 'start' button. You can change the settings before pressing the 'start' button.



Feeding in the original

- 1 Insert the original, face down and aligned to the right, along the original guide on the scanner feed table, so that the line is completely visible (see figure 23).



[23] Inserting the original

The original will be transported about 1 centimeter (0.4") to a predefined position.

- 2 Now you are ready to change settings or to start the copy process (see 'Starting the copy process' on page 57).

If you make a copy before the 1-minute time-out expires, the machine will use the settings of the previous copy job.

Starting the copy process

If you press the 'start' button without changing any settings, the machine will either use the settings of the previous copy job, or its own default settings, which are as follows:

- number of copies 1
- using roll 1
- zoom 100%
- synchro cut

- no leading /trailing edge
- auto exposure on; exposure setting 0.

Default settings are used in the following situations:

- after turning the machine on
- after pressing stop/correct twice
- after a time-out of 1 minute (beginning from the completion of the previous copy job).

If the 'start' button is pressed and the printer is not busy, the original will be scanned. Once the original has been scanned, it will be returned to the operator. No changes can be made to the settings during the scanning process.

After the original has been returned to you, you can remove it, feed in a new original and program the settings.

If the printer is busy at the moment you press the 'start' button, the PLEASE WAIT' indicator lights up. Printing will resume 1 minute after the copying process has finished. The scan will start automatically when the printer is ready again.

Activating/de-activating the rewind function

Note: *The default setting is configured by the Océ service technician.*

If you have a valuable or delicate original, you may prefer not to have the original returned to the operator. In this case, you can use the 'start' button to activate an override of the default settings.

Three default settings are possible:

- 1 the original is rewound after scanning;
- 2 the original is rewound after scanning, unless you tell the scanner to leave the original at the back of the scanner;
- 3 the original is not rewound unless you tell the scanner to feed the original back to the front of the scanner.

If you feed an original and the rewind function is not active, you must press the 'start' button only for the first original. Subsequent originals will be fed automatically (stream feed). Make sure you have chosen new settings before feeding the original.



De-activating the rewind function (in situation 3)

- 1 Insert the original face-down and aligned to the right.
- 2 Choose the required settings.
- 3 Press the 'start' button.
- 4 During scanning, press the 'start' button again. The indicator light above the Start button will flash.
- 5 The original will be held at the back of the scanner.



Activating the rewind function (in situation 2)

- 1 Insert the original face-down and aligned to the right.
- 2 Choose the required settings.
- 3 Press the 'start' button.
- 4 During scanning, press the 'start' button again. The indicator light above the Start button will flash.
- 5 The original will be rewound after scanning.

The settings will return to the default if:

- no original is fed in;
- an error has occurred,
- the correction button is pressed;
- the panel time-out is exceeded.

Changing settings

In order to perform special copy jobs, the Océ 9400-II allows you to change the settings to fit your requirements. This section explains in detail how to change these specific settings.

Number of copies

If you want multiple copies from one original, you will need to enter the desired number of copies on the scanner operating panel. The number of copies will count down on the operating panel of the printer. The original will only be scanned once and the required number of copies will be processed.

See 'Product specifications for the scanner' on page 129 for information on the limitation of multiple copy jobs.

▼ **Selecting the number of copie**

- 1 Enter the number of copies (1 to 19), using the '+' or '-' buttons on the scanner operating panel.
The number of copies appears on the display.

Copying using roll 1 or roll 2

You can choose between the two rolls by pressing the 'media' button. Once a roll has been chosen, the copy media is taken from the selected roll.

Note: *Only use paper as specified in 'Copy material that can be used' on page 135.*

▼ **Selecting roll 1, roll 2, or manual fee**

- 1 Press the 'media' button until the indicator corresponding to your choice lights up.

Copying using manual feed

If you want to copy a job on a media type and/or size that is not available on the media rolls, you might prefer to feed the sheets manually instead of changing the rolls. The sheet feeder is a special slot located just above the paper roll drawers on the print engine. You can insert pre-cut copy media into this slot, one sheet at a time. See also 'Printing using the manual feed' on page 48.

Before using manual feed, you will have to program the media settings. See 'Programming media settings' on page 49.

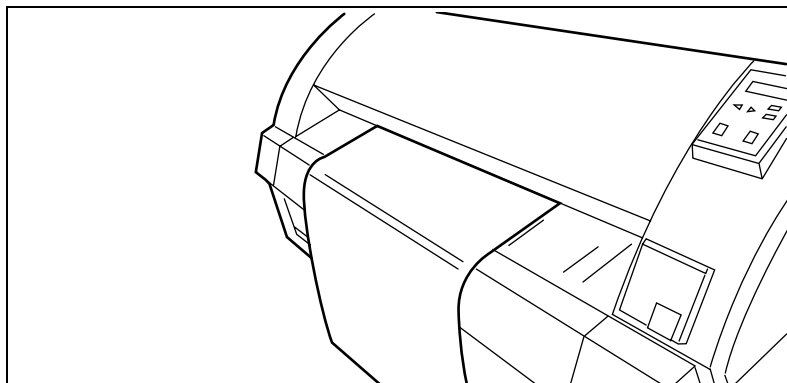


Selecting manual feed

- 1 Feed in the original, in portrait orientation.
- 2 Press the 'media' button until the manual feed indicator lights up.
- 3 Adjust other settings as required.
- 4 Press the 'start' button.
- 5 Wait for the 'FEED SHEET' message in the printer display.
- 6 Feed in the copy material, in portrait orientation (minimum length 420 mm [16.5"]).
- 7 Hold the paper until the engine pulls in the first part of the sheet.

Attention *If the sheets of copy material are curled, feed them in with the curl facing down to avoid damaging the drum*

- 8 If the copy job requires more sheets, the printer display will ask you to feed in the next sheet.
- 9 To complete the job, repeat steps 5 to 8.



[24] Manually feeding in a sheet of paper

Attention: *If you do not wait until the ‘FEED SHEET’ message appears, you may get a paper jam, or the print job may use the wrong sheet of paper.*

Note: *Manual feed time-out (see ‘Setting the time-out for manual feed’ on page 51).*

Reduction/enlargement

With the Océ 9400-II you can reduce or enlarge a copy with the range of 25% to 400%. By pressing the ‘zoom’ button you can toggle between the fixed step zoom mode and the % zoom mode. There are 8 pre-set zoom settings available in fixed-step mode. You can select the zoom factor by using the ‘up’ or ‘down’ button while the indicator is flashing. See also ‘Overview of standard zoom formats’ on page 137.

▼ Making reduced/enlarged copies with pre-set zoom setting

- 1 Press the ‘zoom’ button to activate the fixed step zoom mode.
- 2 Press the ‘up’ or ‘down’ button to select the required reduction/enlargement ratio.

The display shows the selected ratio. If you make adjustments using this button, one of the indicators above the button will flash. If the adjustment differs from the default setting, the indicator will remain on. Confirm the setting by pressing the zoom, edge, cut, media or start buttons.

▼ Making reduced/enlarged copies with 1% increments

- 1 Press the ‘zoom’ button to activate the % zoom mode.
- 2 Press the ‘up’ or ‘down’ button to select the required reduction/enlargement ratio.

The display shows the selected ratio. If you make adjustments using this button, one of the indicators above the button will flash. If the adjustment differs from the default setting, the indicator will remain on. Confirm the setting by pressing the zoom, edge, cut, media or start buttons.

Copying using synchro or standard cut

In synchro cut mode, the copy is cut to the length of the original, taking into account the zoom factor and the leading/trailing edge setting. Synchro cut mode is selected by default.

In standard cut mode, the copy is cut at a standard format (portrait). You select the width of the standard format with the 'up' or 'down' button.

Example: selecting 36 inches means that you select a 36-inch width format and a corresponding 48-inch length. The material is cut to a length of 48 inches regardless of the roll width.

Note: Depending on the ISO, ANSI or ARCH range specified, you get the paper sizes displayed in the corresponding column (see 'Order of standard sizes for using standard cut' on page 138).

If you make adjustments in standard mode using the cut button, the standard' indicator above the button flashes. After confirming the standard selection, the indicator remains on. Confirm the setting by pressing the zoom, edge, cut, media or start buttons.

When standard cut is selected, the system always cuts at the selected length. It does this even if the actual length of the original is shorter or longer than the selected length (taking into account the zoom factor and the leading/trailing edge setting).



Selecting synchro or standard cut

- 1 Press the 'cut' button to select the cut mode you want. The selected cut mode's indicator will light up.

If you select standard cut:

- 2 Press the 'up' or 'down' button' to select the required cut length.
The required length is shown in the operating display. Confirm the setting by pressing the zoom, edge, cut, media or start buttons.
For an overview of the possible standard lengths, see 'Order of standard sizes for using standard cut' on page 138.

Adjusting the leading/trailing edge

You can increase the length of the copy to accommodate a filing strip, by selecting a positive leading/trailing edge.

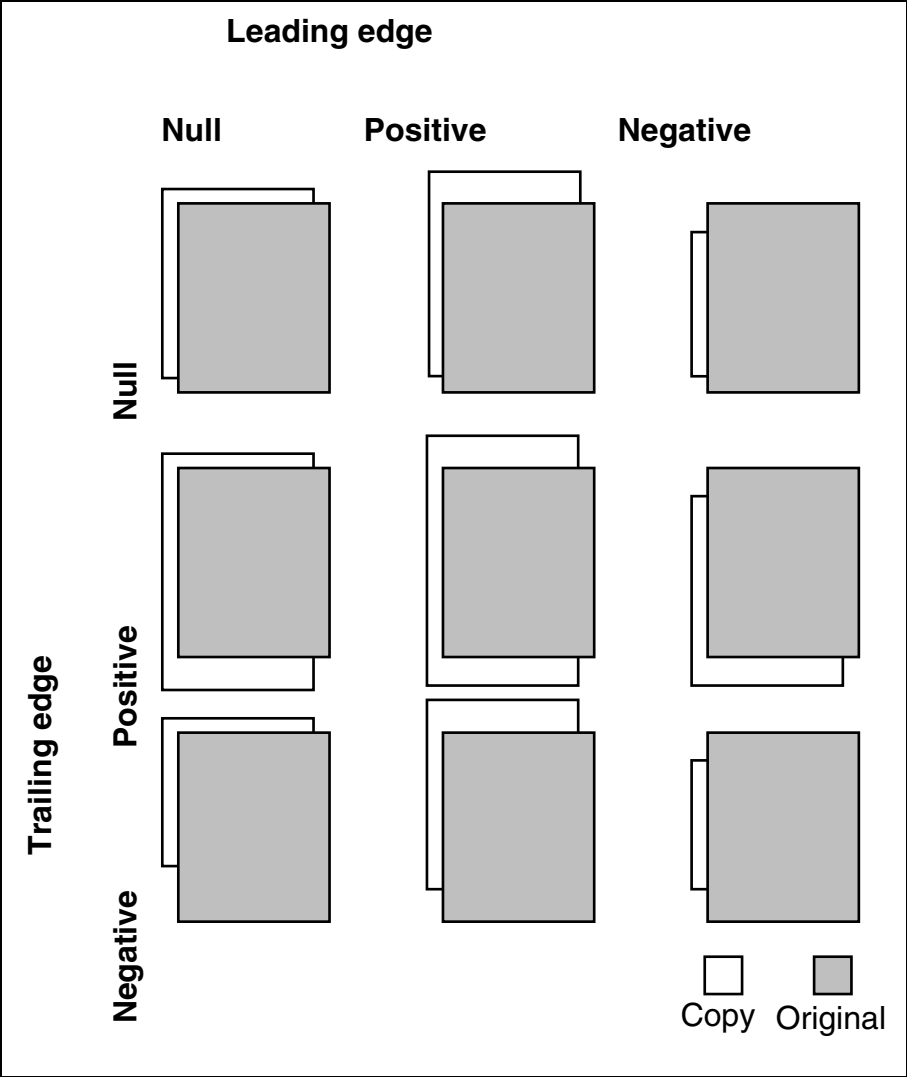
If you don't want the filing strip to show on the copy, you can remove it by selecting a negative leading or trailing edge. The adjustment increments in millimeters or inches appear on the operating panel.

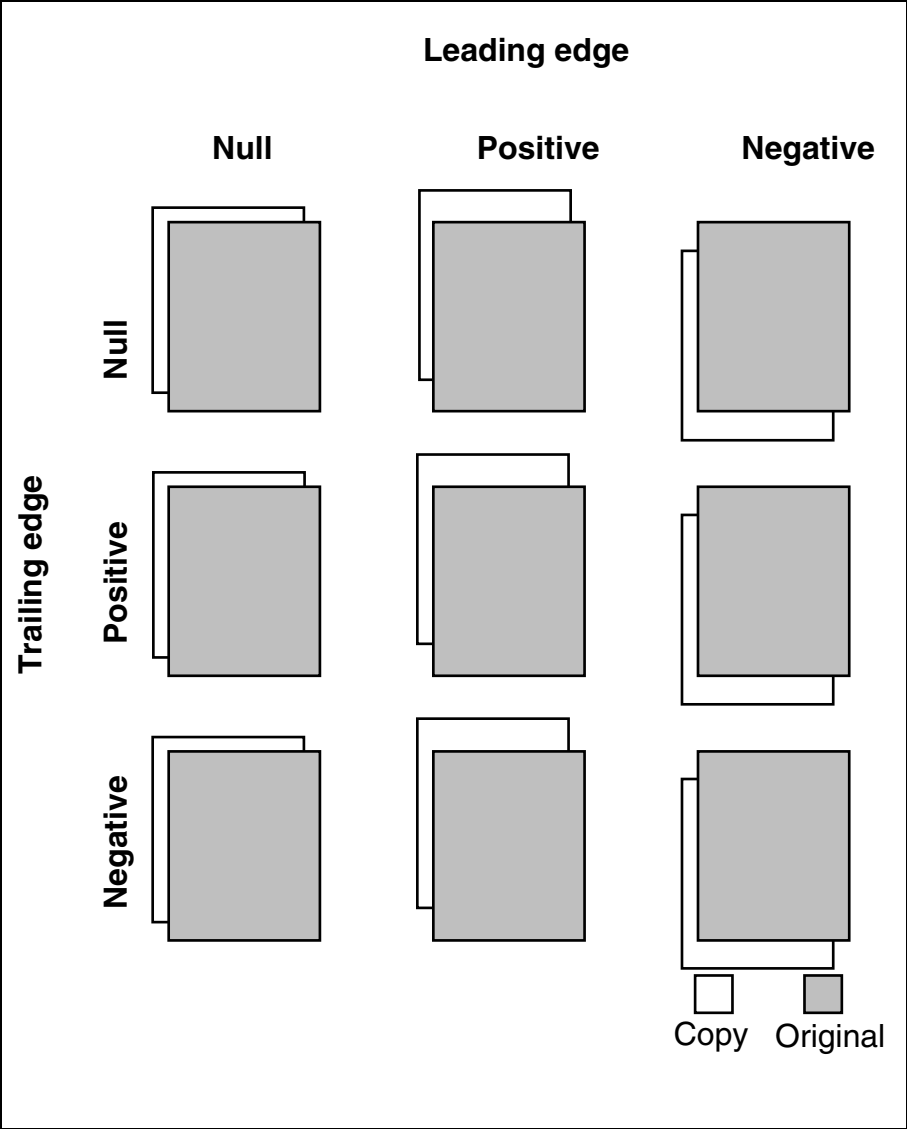
▼ **Adjusting the leading/trailing edge**

- 1 Press the 'edge' button to toggle between leading and trailing edge.
- 2 Press the 'up' or 'down' button to select the required leading/trailing edge value. The length of the currently selected edge appears in the display. If you use this button to make adjustments, the indicators above the button will flash. If the adjustment differs from the default setting, the indicator will remain on. Confirm the setting by pressing the zoom, edge, cut, media or start buttons.

Attention: *Be aware that decreasing the edges too much may result in a loss of information*

The method of adjusting the leading/trailing edge varies, depending on whether you are using roll feed or manual feed (see 'Leading/trailing edge when copying on rolls of paper' on page 65) and 'Leading/trailing edge when copying onto a sheet of paper' on page 66).





[26] Using sheets

Modifying the exposure

The automatic exposure setting ensures the production of background-free copies of most line drawings. This setting activates automatic background compensation.

The background is constantly measured while scanning the original. However, the results from some originals may not match your requirements.

Normally, automatic background compensation is active and the exposure level is 0.

▼ **Manually adjusting the exposure**

If a background still appears on the copy:

- 1 Leave your originals in the scanner.
- 2 Adjust the exposure level with the 'lighter' button.
- 3 Press the 'start' button.

If light printing or graphics are no longer visible:

- 1 Leave your originals in the scanner.
- 2 Adjust the exposure level with the 'darker' button.
- 3 Press the 'start' button.

If the result still does not match your requirements:

- 1 Leave your originals in the scanner.
- 2 Deactivate automatic exposure background compensation by pressing the 'auto exposure' button. The background will no longer be measured during scanning of the original.
- 3 Adjust the background level of the copy using the 'lighter' and 'darker' buttons.
- 4 Press the 'start' button.

Inverted copies/Blueprints

To copy old blueprints, you can select the inverted copy mode. This function is protected in order to prevent involuntary use. First feed the original and then press the 'correction' and the 'zoom' button simultaneously.

▼ **Making inverted copies**

- 1 Feed in the original.

- 2 Press the 'correction' and the 'zoom' button at the same time.
The inverted copy mode is now active. The copy quantity is reset to 1 (this value cannot be changed), and will flash. The auto exposure mode is automatically switched off.
- 3 Press the 'start' button.
Remove the original after it has been returned. The inverted copy mode will no longer be active.

Poster mode

When copying originals with large black areas, Poster mode ensures optimal copy quality by increasing the density of the copy. If required, select this option.

▼ **Activating Poster mod**

- 1 Press the 'lighter' and 'darker' buttons simultaneously.
The Exposure light will flash. Poster mode is now active.
- 2 If desired, the exposure level can also be modified while in Poster mode.
- 3 Feed in the original.
- 4 Press the 'Start' button.

▼ **De-activating Poster mode**

- 1 Press the 'lighter' and 'darker' buttons again simultaneously.
- 2 Press the 'Stop/Correction' button.

Chapter 5

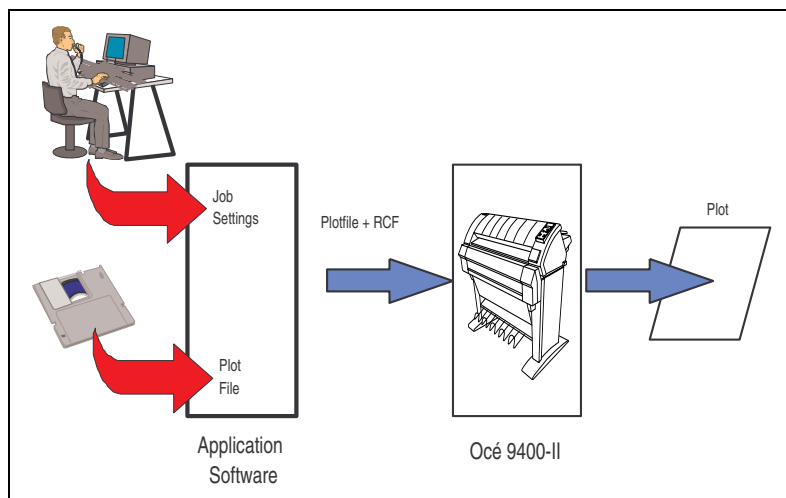
Print jobs

This chapter describes how to print files.



Printing files

The Océ 9400-II can be connected to a host environment, which may be either a standalone PC/Workstation or a PC/Workstation connected to a network. It accepts various standard format CAD/CAM vector and EDMS raster data files from the host environment and converts these into high quality plots (see figure 27).



[27] Data flow to the Océ 9400-II

When an Océ 9400-II receives vector (HP-GL, HP-GL/2, Calcomp 906/907), raster (HP-RTL, TIFF, CALS) or PostScript (PostScript level 2 optional) data, it generates a plot using the settings (e.g. number of copies, plotter emulation, etc.) specified on the operator console in Program Mode.

For maximum flexibility, each plot job can be preceded by remote-control commands specifying the settings to be used for that specific job. These commands are contained in a 'header' containing job- and file-specific settings (e.g. number of copies), in Remote Control Format (RCF), which override the settings programmed in Program Mode.

You may use the following methods to compose a header of this type:

- Compose the header within your application. Please see the Océ 9400-II Programmers Manual for details about the RCF syntax and functionality.
- An Océ Windows or Autocad ADI driver can be used to generate both a plottable file (e.g. HP-RTL, HP-GL/2) and the appropriate header with RCF commands. Refer to the Océ Windows / Autocad Driver documentation for further details.
- The Océ Windows Plot Director application allows you to compose jobs containing plottable files in a very flexible and user-friendly way. Please refer to the Océ Plot Director manual for more details.

Océ application

The following application is available:
Plot Director (MS-Windows 95/98 and NT)

Océ drivers

Note: Please refer to the Océ website (www.oce.com) to obtain the latest drivers.

In order to meet the highest performance standards, the Océ 9400-II only supports 32-bit applications and operating systems. The following drivers are available:

ADI driver for AutoCAD R13C3 (Windows 95/98),

ADI driver for AutoCAD R13C4 (MS-DOS, Windows 95/98, NT 4.0),

ADI driver for AutoCAD R14 (Windows 95/98, NT 4.0),

HDI driver for AutoCad 2000 (Windows 95/98 and NT 4.0),

AutoCad LT: use a window system driver provided by Océ (e.g.; Windows Raster Driver),

Windows Raster Driver (Windows 95/98 and NT),

PostScript driver (Windows 95/98, NT and Macintosh).

Note: In the case of AutoCAD R14 and Bentley MicroStation software, the driver is integrated into the application. For numerous other CAD/EDM/PDM applications, such as PTC's Pro-Engineer and Intergraph, certified drivers are available.







Cut method

This setting can be used to select standard cut or synchro cut (see ‘Order of standard sizes for using standard cut’ on page 138).

Note: *Use Synchro Cut when you must define a non-standard paper size in your application.*

The values selected for leading or trailing edge are taken into account when using Synchro Cut.

▼ Programming cut method

- 1 Press ‘Program’ to enter the main menu.
- 2 Select ‘MEDIA SETTING’ item using the  button.
- 3 Press ‘next/select’ to enter the ‘MEDIA SETTING’ menu.
- 4 Select the ‘PLOT POSITION’ item using the  button.
- 5 Press ‘next/select’ to enter the ‘PLOT POSITION’ menu.
- 6 Select the ‘CUT METHOD’ item using the  or  button.
- 7 Press ‘next/select’ to enter the ‘CUT METHOD’ menu.
- 8 Select the desired cut method using the  or  button.
- 9 Press ‘next/select’ to confirm the selected cut method.
- 10 Press ‘Program’ to exit the main menu.

Plot Center

This setting can be used to enable or disable centering of the plot on the paper. If the center setting is disabled, the plot will be positioned in the upper left-hand corner of the page.

If Standard Cut is selected, the plot is printed and the media is cut according to the standard cut functionality. If Plot Center is On, the plot is shifted up/down and left/right so that it is centered within the selected bounding box.

Note: *If you print a plot that exceeds standard length, the machine automatically switches to synchro cut to prevent you from losing information.*

If Synchro Cut is selected, the bounding box of the plot sets hard clip limits. If Plot Center is ON, the plot is shifted left/right so that it is centered on the page.

▼ Programming Plot Center

- 1 Press ‘Program’ to enter the main menu.

- 2 Select 'MEDIA SETTING' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'MEDIA SETTING' menu.
- 4 Select the 'PLOT POSITION' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'PLOT POSITION' menu.
- 6 Select the 'PLOT CENTER' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'PLOT CENTER' menu.
- 8 Select the 'ON/OFF' using the ⏻ button.
- 9 Press 'next/select' to confirm the setting.
- 10 Press 'Program' to exit the main menu.

Leading/trailing edge

The leading edge setting can be used to add a white strip at the top of the image. The page length will increase accordingly.

The trailing edge setting can be used to add a white strip at the end of the image. The page length will increase accordingly.

Note: *The leading/trailing edge option only works if the cut method is set to synchro cut.*

The value for the trailing or leading edge can be set from 0 to 80 mm (in increments of 5 mm) or 0 to 3 inch (in increments of 1/4 inch).



Programming leading or trailing edge

- 1 Press 'Program' to enter the main menu.
- 2 Select 'MEDIA SETTING' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'MEDIA SETTING' menu.
- 4 Select the 'PLOT POSITION' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'PLOT POSITION' menu.
- 6 Select the 'TRAILING' or 'LEADING EDGE' item using the ⏻ button.
- 7 Press 'next/select' to enter the 'TRAILING' or 'LEADING EDGE' menu.
- 8 Select the required value using the ⏻ button.
- 9 Press 'next/select' to confirm the value.
- 10 Press 'Program' to exit the main menu.

Demo plot

After installing the Océ 9400-II, we recommend that you generate a demo plot in order to make sure that the printer works properly.

▼ Making a demo plot

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'PLOT' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'PLOT' menu.
- 4 Select the 'DEMO PLOT' item using the ◀ or ▶ button.
- 5 Press 'next/select' to print the demo plot.
- 6 Press 'Program' to exit the main menu.

Cancel plot

If you want to cancel a plot before printing starts:

▼ Cancelling a plot

- 1 Press 'cancel/continue'.
The printer will stop. Printing of the plot may be discontinued.
The print media is always ejected.

Chapter 6

Use of the Scan-to-File option

This chapter describes how to use the Océ 9400-II to digitize analog drawings



Introduction

The Océ 9400-II can also be used to digitize analog drawings and upload them to a host computer over a SCSI-2 interface. The Scan-to-file option is used for this purpose.

This option consists of the following components:

- Océ Scan Station software
- Océ View Station software
- SCSI-2 board (option) in the PC to connect to the Océ 9400-II
- SCSI-2 cable (option)



Making upload

After everything has been installed correctly on the Océ 9400-II and on the PC, both systems must be connected with a SCSI-2 cable before uploads can take place. See 'SCSI-2' on page 25.

- 1 Turn on the Océ 9400-II and the PC.
- 2 Start the Upload application, set all scan parameters as required, and then proceed as described below. (See also the Océ 9400 Series Scan Station manual).

As soon as the upload is started with the application, the Océ 9400-II printer panel displays "SCANMODE", signifying that the system is ready to perform uploads.
- 3 Insert an original in the scanner, specify the required settings on the scanner's operating panel and press the Start button on the scanner (see also the notes below).
- 4 Once the original has been scanned and transported back to its start position, a checkplot may be performed. In order for a checkplot to take place, the corresponding option should have been selected in the Scan Station application. The checkplot is created on the media selected on the scanner's operating panel.
- 5 At this point, the Océ 9400-II controller creates a file which will be uploaded to the PC.

Once the file has been uploaded, it can be viewed on the PC.
- 6 Settings can be modified on the PC or on the scanner and a subsequent original can be scanned, or the current original can be re-scanned with the new settings.
- 7 The upload process can be halted on the PC, thus freeing the Océ 9400 series for print and/or copy jobs. (See also the Océ 9400 series Scan Station manual).

The following buttons are disabled on the Océ 9400-II scanner operating panel when it is in Upload mode:

- ‘Cut’
- ‘Edge’, except in the case of a negative leading edge
- ‘Zoom’
- The displayed number of copies is set to "1" if checkplot is enabled on the Scan Station application.

The following buttons are disabled on the Océ 9400-II scanner operating panel when it is in Upload mode and checkplot is disabled:

- ‘Media’
- ‘+’ and ‘-’ for number of copies
- The displayed number of copies is cleared.

The size of the drawing which can be uploaded (and printed with checkplot) is limited by the amount of memory installed in the Océ 9400-II controller and the bitmap partitioning (see ‘Setting the bitmap buffer’ on page 37).

Related documentation

- Océ Scan Station Manual
- Océ View Station Manual
- Océ Machine Monitor Manual

Chapter 7

Customizing the printer

This chapter explains how to set certain Océ 9400-II defaults, such as pen settings and languages, to accommodate frequently-used print jobs.

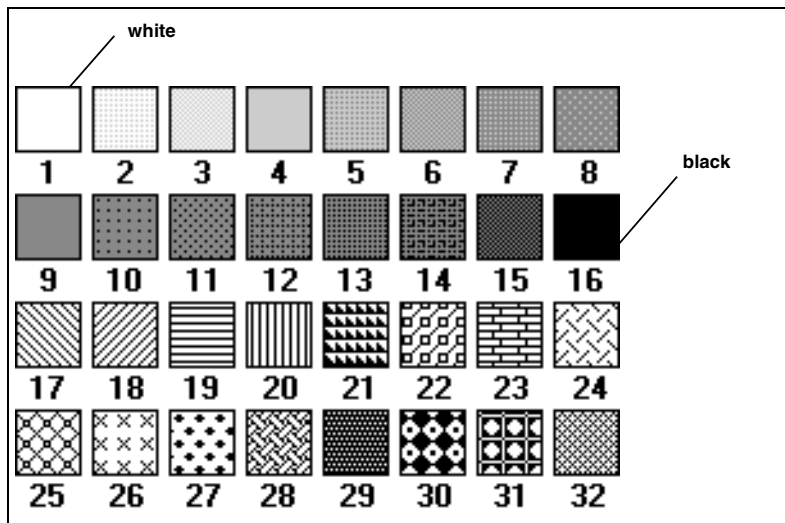


Defining pen settings

You can change the pen settings for the files you want to print in the pen menu. The default width and pattern for each pen number can be changed in this menu. These settings apply to all vector languages: HP-GL, HP-GL/2, and CalComp.

Pen width can be defined from 0.08 up to 10.75 mm (0.0031" to 0.423"). All pen widths are set to 0.25 mm (0.009") by default. Adjustments can be made in increments of 0.01 mm.

A pen can be selected by the plot file to draw a line or to fill a polygon. All lines or polygons on the plot can be drawn with a predefined pattern or shade of gray. Pen pattern 16 is the default. The following pen patterns are available:



[28] Available pen patterns



Defining the pen setting

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'PEN MENU' option using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'PEN MENU'.

For each pen setup, proceed as follows:

- 6 Select the 'PEN NUMBER' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'PEN NUMBER' menu.
- 8 Select the required 'PEN NUMBER' using the ◀ or ▶ button.
- 9 Press 'next/select' to confirm the selected pen number.
- 10 Press 'previous' to re-enter the pen menu.

From this menu:

- 11 Select the 'PEN WIDTH' item using the ◀ or ▶ button.
- 12 Press 'next/select' to enter the 'PEN WIDTH' menu.
- 13 Select the required pen width using the ◀ or ▶ button.
- 14 Press 'next/select' to confirm the selected pen width.
- 15 Press 'previous' to re-enter the pen menu.
- 16 Select the 'PEN PATTERN' item using the ◀ or ▶ button.
- 17 Press 'next/select' to enter the 'PEN PATTERN' menu.
- 18 Select the appropriate pen pattern using the ◀ or ▶ button.
- 19 Press 'next/select' to confirm the selected pen pattern.

After programming all pen settings:

- 20 Press 'Program' to exit the main menu.

Defining language settings

The Océ 9400-II accepts print files in various data formats (languages). You can change the settings for PostScript, HP-GL, HP-GL/2, HP-RTL, CalComp, CALS, TIFF or EDMICS.

Automatic language sensing

Automatic language sensing (ALS) is the mechanism which the system uses to detect the language (data format) of a file for which the format has not been specified in the file header. ALS scans the file contents for clues about the data format. Automatic language sensing can be switched on/off. By default, ALS is activated.



ALS enables the printer to switch between the following languages:

- PostScript, HP-GL, HP-GL/2, HP-RTL, CalComp, CALS, TIFF, and EDMICS.

Use the ALS formats parameter to define which data formats are to be searched for in the print files.

Note: *When using ALS, it is very important that every print file end with an end-of-print instruction.*







▼ **Activating ALS**

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'SELECT FORMAT' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'SELECT FORMAT' menu.
- 8 Select the 'AUTO' item using the  or .
- 9 Press 'next/select' to set up this mode.
- 10 Press 'Program' to exit the main menu.

Data format recognition

To optimize your printer's language recognition capabilities and reduce the risk of errors, each of the above-mentioned data formats can be individually set 'ON' or 'OFF'. The default is 'ON'.

▼ Optimizing data format recognition

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the  button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the  button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'AUTO MENU' item using the  button.
- 7 Press 'next/select' to enter the 'AUTO MENU' menu.
For each graphics language setup, proceed as follows:
- 8 Select the required 'GRAPHICS LANGUAGE' item using the  button.
- 9 Press 'next/select' to enter the required language menu.
- 10 Select 'YES' or 'NO' using the  or  button.
- 11 Press 'next/select' to confirm the selected setting.
- 12 Press 'previous' to re-enter the 'GRAPHICS LANGUAGE' menu.
After programming all languages:
- 13 Press 'Program' to exit the main menu.

Manual data format selection

If necessary, each of the data formats can be selected manually.

Note: *In this case, ALS is inactive.*

▼ Setting manual data forma

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'SELECT FORMAT' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'SELECT FORMAT' menu.
- 8 Select the required language using the ⌂ button.
- 9 Press 'next/select' to confirm the selected language.
- 10 Press 'Program' to exit the main menu.

Note: *When PostScript is selected, RCF headers are not recognized.*







HP-GL

This function allows you to define settings for HP-GL file types.

HP-GL print origin

The term “print origin” refers to the point on the paper at which printing starts. You can choose among the following options: upper right, upper left, center, lower right and lower left. The default is center.

▼ Defining the HP-GL print origin

- 1 Press ‘Program’ to enter the main menu.
- 2 Select the ‘CONFIGURATION’ item using the  button.
- 3 Press ‘next/select’ to enter the ‘CONFIGURATION’ menu.
- 4 Select the ‘DATA FORMAT’ item using the  button.
- 5 Press ‘next/select’ to enter the ‘DATA FORMAT’ menu.
- 6 Select the ‘HP-GL SETUP’ item using the  or  button.
- 7 Press ‘next/select’ to enter the ‘HP-GL SETUP’ menu.
- 8 Select the ‘ORIGIN’ item using the  button.
- 9 Press ‘next/select’ to enter the ‘ORIGIN’ menu.
- 10 Select the required origin using the  button.
- 11 Press ‘next/select’ to confirm the selected origin.
- 12 Press ‘Program’ to exit the main menu.

HP-GL page advance

The Select Pen Zero (SP0) command in HP-GL can be interpreted in two ways:

If ‘PAGE ADVANCE’ is set to **yes**, the printer interprets the HP-GL instruction SP0 as an end-of-print indication.

If ‘PAGE ADVANCE’ is set to **no**, the printer interprets the HP-GL instruction SP0 as “select pen zero”. Any vectors following the SP0 will be printed with the defined pen attributes (width and pattern). The default is Yes. See also ‘Defining pen settings’ on page 80.

▼ Setting the HP-GL page advance

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'HP-GL SETUP' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'HP-GL SETUP' menu.
- 8 Select the required 'PAGE ADVANCE' item using the ◀ or ▶ button.
- 9 Press 'next/select' to enter the 'PAGE ADVANCE' menu.
- 10 Select 'YES' or 'NO' using the ◀ or ▶ button.
- 11 Press 'next/select' to confirm the selected setting.
- 12 Press 'Program' to exit the main menu.

Merge mode

This option determines what happens when two or more colors intersect at the same point of a plot, especially in area fills. This option is On by default.

Merge Off Only the last color specified is printed for a given line or area. Any other colors specified for the same line or area are transparent.

Merge On All specified colors are blended together.

▼ Setting the merge mode







- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'HP-GL SETUP' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'HP-GL SETUP' menu.
- 8 Select the 'MERGE' item using the ◀ or ▶ button.
- 9 Press 'next/select' to enter the 'MERGE' menu.
- 10 Select 'YES' or 'NO' using the ◀ or ▶ button.
- 11 Press 'next/select' to confirm the selected setting.
- 12 Press 'Program' to exit the main menu.

HP-GL/2

HP-GL/2 print origin

The term “print origin” refers to the point on the paper at which printing starts. You can choose among the following options: upper right, upper left, center, lower right and lower left. The default is lower right.

▼ Defining the HP-GL/2 print origin

- 1 Press ‘Program’ to enter the main menu.
- 2 Select the ‘CONFIGURATION’ item using the  button.
- 3 Press ‘next/select’ to enter the ‘CONFIGURATION’ menu.
- 4 Select the ‘DATA FORMAT’ item using the  button.
- 5 Press ‘next/select’ to enter the ‘DATA FORMAT’ menu.
- 6 Select the ‘HP-GL/2 SETUP’ item using the  or .
- 7 Press ‘next/select’ to enter the ‘HP-GL/2 SETUP’ menu.
- 8 Select the ‘ORIGIN’ item using the  button.
- 9 Press ‘next/select’ to enter the ‘ORIGIN’ menu.
- 10 Select the required origin item using the  button.
- 11 Press ‘next/select’ to confirm the selected origin.
- 12 Press ‘Program’ to exit the main menu.

HP-GL/2 page advance

The SP0 command in HP-GL/2 can be interpreted in two ways, depending on the printer being emulated.

If ‘PAGE ADVANCE’ is set to **yes**, the printer interprets the HP-GL instruction SP0 as an end-of-print indicator.

If ‘PAGE ADVANCE’ is set to **no**, the printer interprets the HP-GL instruction SP0 as “select pen zero”. Any vectors following the SP0 will be printed with the defined pen attributes (width and pattern). The default is No. See also ‘Defining pen settings’ on page 80.

▼ Setting the HP-GL/2 page advance

- 1 Press ‘Program’ to enter the main menu.

- 2 Select the 'CONFIGURATION' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'HP-GL/2 SETUP' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'HP-GL/2 SETUP' menu.
- 8 Select the 'PAGE ADVANCE' item using the ◀ or ▶ button.
- 9 Press 'next/select' to enter the 'PAGE ADVANCE' menu.
- 10 Select the required page advance using the ◀ or ▶ button.
- 11 Press 'next/select' to confirm the selected page advance.
- 12 Press 'Program' to exit the main menu.

HP-GL/2 pen priority

You can define pen parameters in the print file, either in a remote configuration file or from the printer control panel. The pen priority option allows you to define which set of pen parameters you want to use.

If **'Language'** is selected, the pen parameters defined in the data file will be used. If **'Setup'** is selected, the pen parameter defined on the printer operating panel, or in the optional remote configuration file, will be used. The default is 'Language'.







▼ Defining HP-GL/2 pen priority

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'HP-GL/2 SETUP' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'HP-GL/2 SETUP' menu.
- 8 Select the 'PEN PRIORITY' item using the ◀ or ▶ button.
- 9 Press 'next/select' to enter the 'PEN PRIORITY' menu.
- 10 Select the required pen priority using the ◀ or ▶ button.
- 11 Press 'next/select' to confirm the selected pen priority.
- 12 Press 'Program' to exit the main menu.

Designjet compatibility

If you print a color data file on a black-and-white printer, the result may not be satisfactory. If you emulate the HP 650C, all information which is defined in color is printed in black; if you emulate the HP 750C, all information which is defined in color will be printed in gray-scale levels.

▼ Defining Designjet compatibility

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the  button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the  button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'HP-GL/2 SETUP' item using the  or .
- 7 Press 'next/select' to enter the 'HP-GL/2 SETUP' menu.
- 8 Select the 'DESIGNJET' item using the  button.
- 9 Press 'next/select' to enter the 'DESIGNJET' menu.
- 10 Select the required Designjet using the  button.
- 11 Press 'next/select' to confirm the selected Designjet.
- 12 Press 'Program' to exit the main menu.






Merge mode


This option determines what happens when two or more colors intersect at the same point of a plot, especially in area fills. This option is On by default.

Merge Off Only the last color specified is printed for a given line or area. The other colors specified for the same line or area are transparent.

Merge On All the specified colors are blended together.

▼ Setting the merge mod

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the  button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the  button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'HP-GL/2 SETUP' item using the  or .
- 7 Press 'next/select' to enter the 'HP-GL/2 SETUP' menu.
- 8 Select the 'MERGE' item using the  button.

- 9 Press 'next/select' to enter the 'MERGE' menu.
- 10 Select 'YES' or 'NO' using the  button.
- 11 Press 'next/select' to confirm the selected setting.
- 12 Press 'Program' to exit the main menu.

HP-RTL

HP-RTL is a subset of HP-GL/2. Therefore, all HP-RTL plot data files must start with ESC%-1BBPIN: or BPIN.

To use HP-RTL, the SELECT FORMAT should be set to AUTO or HP-GL/2 on the operating panel, or HP-GL/2 must be selected via a remote control file.

Note: *HP-RTL plot data files must end with ESC%OB; PG; which will switch the printer back to HP-GL/2 format mode. Without this command, the plot results will be unpredictable and the printer will stop.*

The following HP-RTL statements are not recognized by the Océ 9400-II and will be treated as no-ops: ESC*v#a, ESC*v#b, ESC*v#c, ESC*v#i, ESC*v#W[data], ESC*b#l and ESC&b#V[data].

CalComp






The Océ 9400-II supports use of the CalComp graphics language.

CalComp print origin

The term “print origin” refers to the point on the paper at which a drawing starts: upper right, upper left, center, lower right and lower left.

The default CalComp origin is lower right. This print origin is used for all CalComp files, whether the format is set to CalComp or Auto, even if a remote control command for CalComp is sent.


▼ Defining the print origi

- 1 Press ‘Program’ to enter the main menu.
- 2 Select the ‘CONFIGURATION’ item using the  button.
- 3 Press ‘next/select’ to enter the ‘CONFIGURATION’ menu.
- 4 Select the ‘DATA FORMAT’ item using the  button.
- 5 Press ‘next/select’ to enter the ‘DATA FORMAT’ menu.
- 6 Select the ‘CALCOMP SETUP’ item using the  button.
- 7 Press ‘next/select’ to enter the ‘CALCOMP SETUP’ menu.
- 8 Select the ‘ORIGIN’ item using the  button.
- 9 Press ‘next/select’ to enter the ‘ORIGIN’ menu.
- 10 Select the required origin item using the  button.
- 11 Press ‘next/select’ to confirm the selected origin.
- 12 Press ‘Program’ to exit the main menu.

Checksum parameter

The checksum parameter is significant in all cases in which the CalComp format is selected or auto-recognized, and select format is set to Auto or a remote control command for CalComp has been sent. The default is ‘Yes’.

▼ Defining the checksum paramete

- 1 Press ‘Program’ to enter the main menu.
- 2 Select the ‘CONFIGURATION’ item using the  button.
- 3 Press ‘next/select’ to enter the ‘CONFIGURATION’ menu.

- 4 Select the 'DATA FORMAT' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'CALCOMP SETUP' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'CALCOMP SETUP' menu.
- 8 Select the 'CHECKSUM' item using the ◀ or ▶ button.
- 9 Press 'next/select' to enter the 'CHECKSUM' menu.
- 10 Select 'YES' or 'NO' using the ⏏ button.
- 11 Press 'next/select' to confirm the selected setting.
- 12 Press 'Program' to exit the main menu.

CalComp pen priority

You can define pen parameters in the print file, either in a remote configuration file or from the printer control panel. The pen priority option allows you to define which set of pen parameters you want to use.

If **'Language'** is selected, the pen parameters defined in the data file will be used. If **'Setup'** is selected, the pen parameter defined on the printer operating panel, or in the optional remote configuration file, will be used. The default is Language.

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'CALCOMP SETUP' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'CALCOMP SETUP' menu.
- 8 Select the 'PEN PRIORITY' item using the ◀ or ▶ button.
- 9 Press 'next/select' to enter the 'PEN PRIORITY' menu.
- 10 Select the required pen priority using the ◀ ⏏ ▶ button.
- 11 Press 'next/select' to confirm the selected pen priority.
- 12 Press 'Program' to exit the main menu.

Merge mode

This option determines what happens when two or more colors intersect at the same point of a plot, especially in area fills. The default setting is 'On'.

Merge Off Only the last color specified is printed for a given line or area. The other colors specified for the same line or area are transparent.

Merge On All the specified colors are blended together.



Setting the merge mod

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'CALCOMP SETUP' item using the button.
- 7 Press 'next/select' to enter the 'CALCOMP SETUP' menu.
- 8 Select the 'MERGE' item using the or button.
- 9 Press 'next/select' to enter the 'MERGE' menu.
- 10 Select 'YES' or 'NO' using the or button.
- 11 Press 'next/select' to confirm the selected setting.
- 12 Press 'Program' to exit the main menu.

End of Message parameter

The End of Message (EOM) parameter is significant in all cases in which the CalComp format is selected or auto-recognized, and select format is set to Auto or a remote control command for CalComp has been sent.

The range of permitted values is 0 to 31_{DEC} inclusive. The selected value is the decimal equivalent of the byte indicating the end of the data sequence. It should be a unique character from the character set used to encode the data. The default EOM is 3.



Setting the End of Message parameter

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'CALCOMP SETUP' item using the button.
- 7 Press 'next/select' to enter the 'CALCOMP SETUP' menu.
- 8 Select the 'END OF MESSAGE' item using the button.
- 9 Press 'next/select' to enter the 'END OF MESSAGE' menu.
- 10 Select the required value using the button.

- 11 Press 'next/select' to confirm the selected value.
- 12 Press 'Program' to exit the main menu.

Synchronization code parameter

The synchronization code parameter is significant in all cases where CalComp format is selected or auto-recognized, when select format is set to Auto or a remote control command for CalComp has been sent.

The range of permitted values is 0 to 63 DEC inclusive. The selected value is the decimal equivalent of the byte interpreted as the beginning of a print data block. The default synchronization code is 2.

▼ **Setting the synchronization code parameter**







- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'CALCOMP SETUP' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'CALCOMP SETUP' menu.
- 8 Select the 'SYNC CODE' item using the ◀ or ▶ button.
- 9 Press 'next/select' to enter the 'SYNC CODE' menu.
- 10 Select the required sync code using the ◀ the ▶ button.
- 11 Press 'next/select' to confirm the selected sync code.
- 12 Press 'Program' to exit the main menu.

Double synchronization code parameter

The synchronization code parameter is significant in all cases where CalComp format is selected or auto-recognized, when select format is set to Auto or a remote control command for CalComp has been sent.

The double synchronization parameter allows one or two synchronization characters to identify the beginning of a message of print data. If set to double synchronization, the same character is sent twice. The default is 'No'.







▼ **Setting the double synchronization code parameter**

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the  button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the  button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'CALCOMP SETUP' item using the  button.
- 7 Press 'next/select' to enter the 'CALCOMP SETUP' menu.
- 8 Select the 'DOUBLE SYNC' item using the  button.
- 9 Press 'next/select' to enter the 'DOUBLE SYNC' menu.
- 10 Select the required double sync using the   button.
- 11 Press 'next/select' to confirm the selected value.
- 12 Press 'Program' to exit the main menu.

CalComp step size

If the data format type is set to CalComp (manual, auto selection or remote control command), seven steps or increments are provided (100 dpi to 4064 dpi). The default is 2032.

▼ **Setting the appropriate step size**

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the  button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the  button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'CALCOMP SETUP' item using the  button.
- 7 Press 'next/select' to enter the 'CALCOMP SETUP' menu.
- 8 Select the 'STEP SIZE' item using the  button.
- 9 Press 'next/select' to enter the 'STEP SIZE' menu.
- 10 Select the required value using the   button.
- 11 Press 'next/select' to confirm the selected value.
- 12 Press 'Program' to exit the main menu.

Raster formats

CALS

CALS stands for Computer Aided Acquisition and Logistics Support. The Océ 9400-II printer supports CALS type 1 files. (Untiled, compatible with CCITT Group 4 format).

NIRS

NIRS is a subset of CALS. The data format consists of a CALS header followed by an NIRS header, followed by TIFF raster data.

TIFF

TIFF (Tagged Information File Format).

The Océ 9400-II printer supports the following TIFF 6.0 files.

- Uncompressed
- Compressed:
 - PACKBIT byte oriented, runlength
 - Modified Huffman (based on CCITT G3 1D
 - CCITT Group 3 1 D and 2 D, runlength
 - CCITT Group 4.

C4 (EDMICS)

C4 data format consists of a header followed by compressed CCITT 4 raster data.

Note: *No specific settings are necessary for the above raster languages.*

PostScript level 2

The Océ PostScript level 2 printer option can be used to print PostScript files on the Océ 9400. Océ provides host software which enables you to print from Windows or Macintosh applications.

This option enables your printer to become a true wide-format printer, producing monochrome posters from Illustrator, Word, Excel, QuarkXpress, Powerpoint, Pagemaker, etc., as well as CAD or electronic design applications, among others.

Your PostScript document can be printed on any PostScript printer, in most cases without any decrease in output quality. The Océ 9400-II PostScript drive translates the application's internal data into PostScript, and also simplifies the selection of printer features.

PostScript data format selection

When the PostScript option is installed, your printer will automatically recognize the PostScript language data sent to the printer (see 'Defining language settings' on page 82)

Note: *It is very important that every print file terminate with an end-of-print instruction. The PostScript end-of-print instruction is "Ctrl D".*

If there are files in the Media Saver, they will be flushed (printed) before the PostScript file is interpreted.


If your print is not recognized correctly, send it again with the appropriate data format selected on the control panel or in a remote control file.

PostScript page layout

The orientation of the printed page on the roll can be either landscape or portrait.



Selecting the PostScript page layout

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the  button.

- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'PS SETUP' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'PS SETUP' menu.
- 8 Select the 'PAGE LAYOUT' item using the ◀ or ▶ button.
- 9 Press 'next/select' to enter 'PAGE LAYOUT' menu.
- 10 Select the required page layout using the ◀ or ▶ button.
- 11 Press 'next/select' to confirm the selected page layout.
- 12 Press 'Program' to exit the main menu.

Default PostScript page size

This option specifies the dimensions of the paper on which your document will be printed. (For example: D, A1, 8.5x11", etc.). This option is useful only when the format is not specified in the PostScript file.

▼ Selecting the default PostScript page size

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'DATA FORMAT' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'DATA FORMAT' menu.
- 6 Select the 'PS SETUP' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'PS SETUP' menu.
- 8 Select the 'DEF PAGE SIZE' item using the ◀ or ▶ button.
- 9 Press 'next/select' to enter the 'DEF PAGE SIZE' menu.
- 10 Select the required page size using the ◀ or ▶ button.
- 11 Press 'next/select' to confirm the selected page size.
- 12 Press 'Program' to exit the main menu.

Note: The page size defined in the PostScript driver overrides the default PostScript page size setting.

Manual feed and Autoscale-to-format are not supported by the PostScript driver. These functions can, however, be activated via the printer operating panel.

Chapter 8

Advanced printer menu functions

This chapter describes certain advanced printer functions.



Introduction

The Océ 9400-II makes certain advanced printer menu functions available to the user, such as:

- Media saver (see page 101).
- Replot (see page 106).
- Quality Setting (see page 107).
- Transformation (see page 109).
- Password setting for display (see page 113)
- Dump configuration (see page 114)
- Service (see page 115)

Selecting the media saver

The Océ 9400-II offers two options for optimizing usage of print media: Nesting and Autoposition. This applies to both vector and raster formats. The media saver can also be disabled.

The media saver is flushed in the following situations:

- after a time-out
- when a copy job interrupts the printing process
- when selecting another roll or manual feed
- by the flush media saver on the printer operating panel.

Note: *When automatic roll selection is used, the media saver is inactive.*

The following settings must be specified before the media saver can be used:

- cut methods = synchro
- center = off
- leading and trailing edge = 0.

Nesting



When nesting is selected, prints are stored in queues in the printer's memory, according to their size: 8.5x11" or A, 11x17" or B, 17x22" or C, and mixed 11 x 17"/8.5 x 11". When the queue is full, the drawings are printed across the full width of the media.

The minimum paper length is 16.5 inches. Therefore, when printing 11 x 17" landscape or 8.5 x 11", an extra strip of white paper appears at the end.

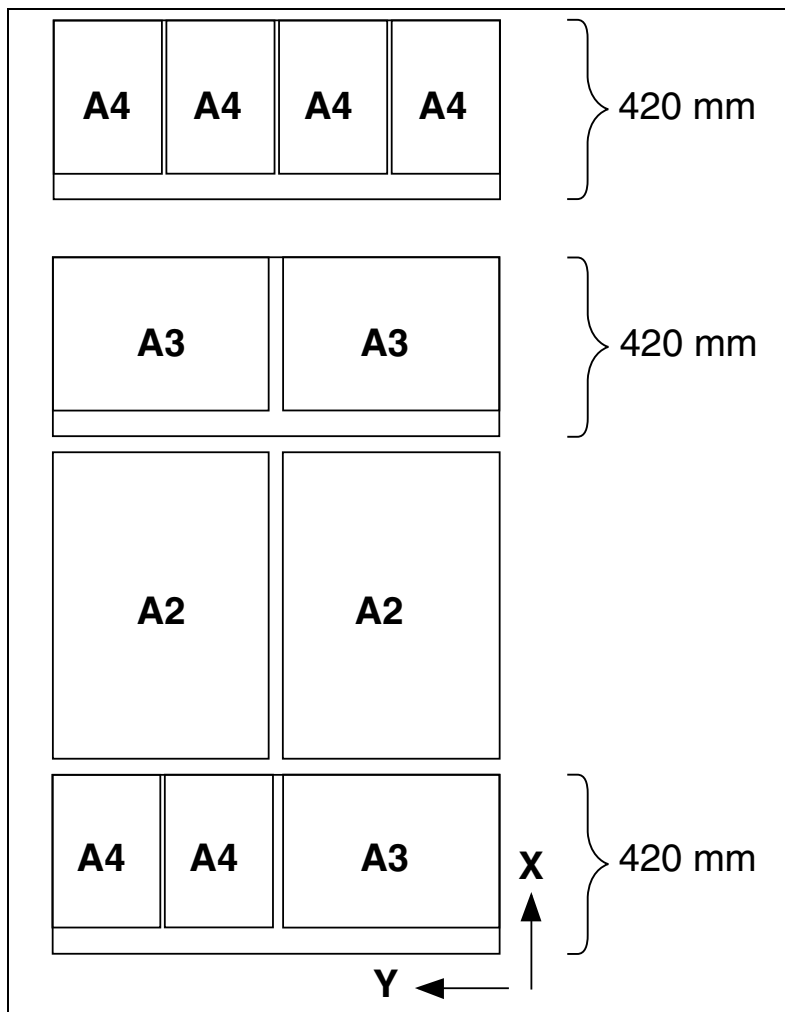
If the print is larger than C size, it will not be stored in a queue but will be printed normally. If prints are not standard ISO, ANSI or Architecture sizes, the next larger format is used (see figure 29 on page 102).



Selecting nesting

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the  button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'PLOT MANAGER' item using the  button.
- 5 Press 'next/select' to enter the 'PLOT MANAGER' menu.

- 6 Select the 'MEDIA SAVER' item using the ◀ or button.
- 7 Press 'next/select' to enter the 'MEDIA SAVER' menu.
- 8 Select the 'M/S MODE' item using the ◀ or button.
- 9 Press 'next/select' to enter the 'M/S MODE' menu.
- 10 Select the 'NESTING' item using the button.
- 11 Press 'next/select' to select the required setting.
- 12 Press 'Program' to exit the main menu.

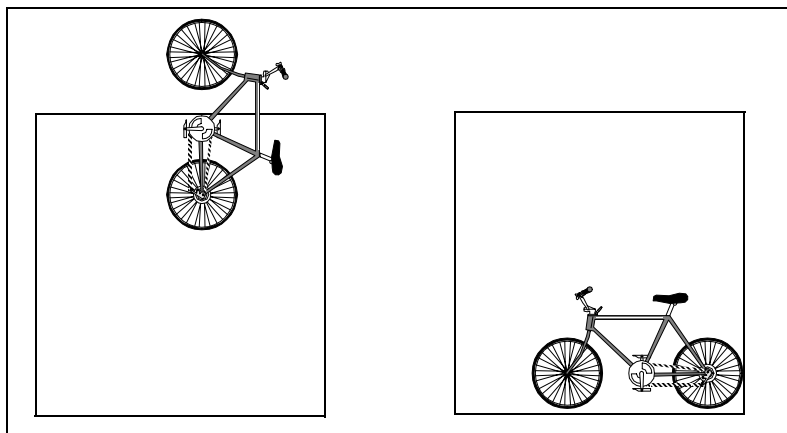


[29] Media saver nesting

Autoposition

This option ignores the origin contained in the print file and automatically shifts the print data to the lower right-hand corner of the media. If necessary, prints are rotated 90 ° to make better use of the available media.

The autoposition feature helps eliminate the need to clip prints and reduces media waste.



[30] Autoposition to save media



Selecting autopositio

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the **Left Arrow** button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'PLOT MANAGER' item using the **Left Arrow** button.
- 5 Press 'next/select' to enter the 'PLOT MANAGER' menu.
- 6 Select the 'MEDIA SAVER' item using the **Left Arrow** button.
- 7 Press 'next/select' to enter the 'MEDIA SAVER' menu.
- 8 Select the 'M/S MODE' item using the **Left Arrow** button.
- 9 Press 'next/select' to enter the 'M/S MODE' menu.
- 10 Select the 'AUTO POSITION' item using the **Right Arrow** button.
- 11 Press 'next/select' to select the required setting.
- 12 Press 'Program' to exit the main menu.



De-selecting the media save

- 1 Use the above procedure and select media saver OFF.

Media saver time-out

As explained in the previous section, when the media saver queue is full, the drawings are printed. However, to prevent unnecessary delays for prints in partially filled queues, a time-out of 1 to 60 minutes can be set, after which the contents of the queue are printed.

▼ **Setting the media saver time-out**

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'PLOT MANAGER' item using the ⏏ button.
- 5 Press 'next/select' to enter the 'PLOT MANAGER' menu.
- 6 Select the 'MEDIA SAVER' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'MEDIA SAVER' menu.
- 8 Select the 'M/S TIME OUT' item using the ⏏ button.
- 9 Press 'next/select' to enter the 'M/S TIME OUT' menu
- 10 Select the required value using the ⏏ button.
- 11 Press 'next/select' to confirm the selected value.
- 12 Press 'Program' to exit the main menu.

Flush media saver

This option allows the user to immediately print any print that is held in the media saver memory.

▼ **Setting the flush media save**

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'FLUSH M.SAVER' item using the ⏏ button.
- 3 Press 'next/select' to print the file being held.
- 4 Press 'Program' to exit the main menu.

Media saver plot size

When the media saver is set to Nesting, three paper size options are available:
'STD NO CLIP' The print is scaled to fit on the selected paper size. It is not clipped.








'STD CLIPPED' If necessary, the print is clipped to fit onto the selected paper size.

'NON STANDARD' The print is drawn as defined in the print data file. Paper size depends on the size of the plot.

The default is 'NON STANDARD'.



Setting the media saver plot size

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the  button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'PLOT MANAGER' item using the  button.
- 5 Press 'next/select' to enter the 'PLOT MANAGER' menu.
- 6 Select the 'MEDIA SAVER' item using the  button.
- 7 Press 'next/select' to enter the 'MEDIA SAVER' menu.
- 8 Select the 'M/S PLOT SIZE' item using the  or  button.
- 9 Press 'next/select' to enter the 'M/S PLOT SIZE' menu.
- 10 Select the required setting using the   button.
- 11 Press 'next/select' to confirm the selected setting.
- 12 Press 'Program' to exit the main menu.

Replot

Normally, files are discarded after being processed and printed. The replot function overrides this feature, preventing the file from being discarded. To make extra copies/prints from the operating panel, you must select 'REPLOT ENABLE'.

The default is 'off'.

▼ Enabling replot

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'REPLOT' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'REPLOT' menu.
- 6 Select the required setting using the ◀ or ▶ button.
- 7 Press 'next/select' to confirm the setting.
- 8 Press 'Program' to exit the main menu.

Setting the number of copies

This option enables you to print multiple prints of the file currently stored in the printer's memory. The default is 0, and a maximum of 99 prints can be made using this option.

Note: *This option is active only when replotting is enabled.*

▼ Defining the number of print

- 1 Press 'Program' to enter the main menu.
- 2 Select the '# COPIES' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the '# COPIES' menu.
- 4 Select the required number of copies using the ◀ or ▶ button.
- 5 Press 'next/select' to confirm the number of copies.
- 6 Press 'Program' to exit the main menu.

Quality setup

Quality setup includes:

- Poster mode, to print documents with large black areas.
- Rendering, to change the first 16 pen patterns into another 16 gray-shaded pen patterns.
- Image type, to use the correct scaling method.

Poster mode

Poster mode is useful when you must make prints which contain large black areas.

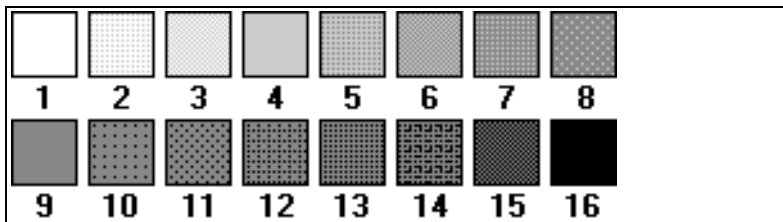
▼ Enabling Poster mod

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'QUALITY' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'QUALITY' menu.
- 4 Select the 'POSTER MODE' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'POSTER MODE' menu.
- 6 Select the Poster mode on/off using the ◀ or ▶ button.
- 7 Press 'next/select' to confirm the Poster mode.
- 8 Press 'Program' to leave the main menu.

Note: *This setting will be overruled by Plot Director, the drivers and the setting on the scanner operating panel.*

Rendering

The rendering function can be divided into clustered or cloud. With this option you can change the first 16 pen patterns into another 16 gray-shaded pen patterns.



[31] [The rendering function gray shaded patterns]

Attention: *Clustered must be used if your originals contain large gray areas. Use cloud to get an optimal result with line drawings*

▼ Defining renderin

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'QUALITY' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'QUALITY' menu.
- 4 Select the 'RENDERING' option using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'RENDERING MENU'.
- 6 Select the required option, clustered or cloud, using the ◀ or ▶ button.
- 7 Press 'next/select' to confirm the selected option.
- 8 Press 'Program' to exit the main menu.

Image type

The Océ 9400-II has an optimized quality mode for scaling down raster files in order to deliver the best possible quality. The default setting is CAD.

CAD will use scaling in order not to lose thin lines when scaling down raster files or converting the resolution of the file to the resolution of the rpinter (300 dpi).

PHOTO 'will use pixel scaling.

▼ Defining image typ

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'QUALITY' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'QUALITY' menu.
- 4 Select the 'IMAGETYPE' option using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'IMAGE TYPE MENU'.
- 6 Select the required option CAD or PHOTO using the ◀ or ▶ button.
- 7 Press 'next/select' to confirm the selected option.
- 8 Press 'Program' to leave the main menu.







Transformation

The Océ 9400-II allows the user to change the position of the image on the print in the following ways: Image rotation and scaling functions. This applies only to **vector** languages and is possible only when the media saver is switched off.

Print rotation

This function allows you to set the degree of rotation applied to a print. Four rotation values are possible: 0°, 90°, 180°, and 270°. The default is 0°. This function applies only to vector languages.



▼ Defining the print rotation

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the  button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'PLOT MANAGER' item using the  button.
- 5 Press 'next/select' to enter the 'PLOT MANAGER' menu.
- 6 Select the 'TRANSFORM' item using the  or  button.
- 7 Press 'next/select' to enter the 'TRANSFORM' menu.
- 8 Select the 'ROTATION' item using the  button.
- 9 Press 'next/select' to enter the 'ROTATION' menu.
- 10 Select the required value using the  button.
- 11 Press 'next/select' to confirm the setting.
- 12 Press 'Program' to exit the main menu.

Print scaling

The X-scale and Y-scale can be individually set to values ranging from 0.05 to 20.0. The default is 1.0. This function applies only to vector languages.

▼ Defining print scaling

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the  button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'PLOT MANAGER' item using the  button.

- 5 Press 'next/select' to enter the 'PLOT MANAGER' menu.
- 6 Select the 'TRANSFORM' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'TRANSFORM' menu.
- 8 Select the 'SCALING' item using the ⏮ or ⏭ button.
- 9 Press 'next/select' to enter the 'SCALING' menu.
- 10 Select the required scaling method using the ⏮ or ⏭ button.
- 11 Press 'next/select' to enter the appropriate menu.

Follow the procedure below to define scaling for the X and Y axes individually:

- 12 Select the required setting using the ⏮ or ⏭ button.
- 13 Press 'next/select' to confirm the setting.
- 14 Press 'Program' to exit the main menu.

Note: When *autoscale* is selected, *x-scaling* and *y-scaling* are not applicable.

Autoscaling

The purpose of Autoscale is to apply exact ISO/ANSI/Architect formats to documents. The same scaling factor is applied to the X and Y axis. An auto rotation can be performed to attain the best auto scale factor.

Although the Media Saver and the Autoscaling Mode are controlled separately, they do interact.

Autoscale mode can be activated in two ways:

- autoscale to a predefined format (ISO/ANSI/Architect)
- best fit

The user can combine Autoscale and Autoposition: plots are first autoscaled (best fit or scale to format, if required), and then autopositioned (if required).

Fit-to-Format Mode:

All drawings, regardless of size, are reduced/enlarged to one specific standard size. This option can be combined with the Media Saver option.

The list of predefined formats depends on the media format selected via the printer operating panel.

Users can enlarge drawings to poster size in order to make presentations to large audience. They can also reduce documents to easily mail them or archive them in standard A3 (11x17") or A4 (8.25x11") books.

Best fit Mode

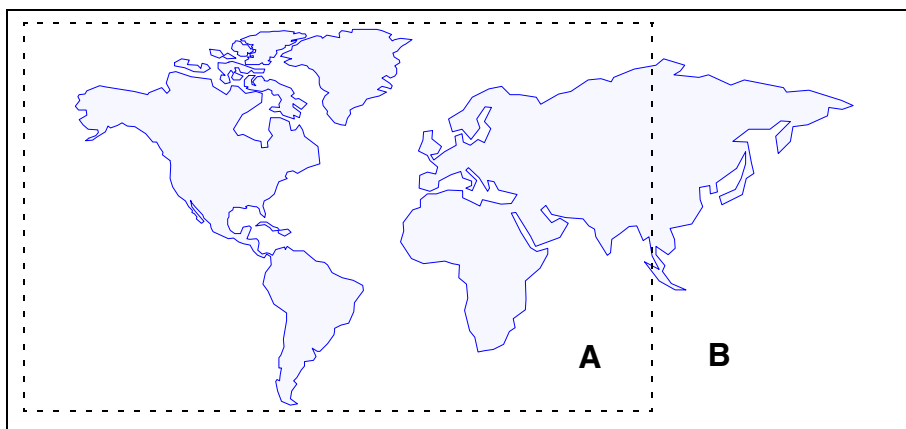
In this mode, the drawing will be reduced to match either the length or the width of the format loaded in the machine, with no loss of information (no clipping). Only plots larger than the loaded media size are scaled or rotated; all others are printed without scaling.

Note: *This mode does not enlarge drawings, but only reduces them.*

This option cannot be used with the Nesting option. If Nesting is enabled, this option will have no effect.

This mode prevents clipping of plots which are larger than the media loaded in the machine.

If 'AUTOSCALE' is off and if your drawing is larger than the physical dimensions of the media, the printer will automatically clip the area outside the margins. The 'CLIPPING' message appears on the display, and the printer automatically compensates for the discrepancy. Clipping does not affect the position of the print origin.





[32] Print clipping

A: Only the left part of the drawing is plotted.

B: The part of the drawing outside the margins is clipped.



Defining autoscalin

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the  button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'PLOT MANAGER' item using the  button.

- 5 Press 'next/select' to enter the 'PLOT MANAGER' menu.
- 6 Select the 'TRANSFORM' item using the ◀ or ▶ button.
- 7 Press 'next/select' to enter the 'TRANSFORM' menu.
- 8 Select the 'SCALING' item using the ⏮ or ⏭ button.
- 9 Press 'next/select' to enter the 'SCALING' menu.
- 10 Select 'AUTOSCALE' on using the ⏮ or ⏭ button.
- 11 Press 'next/select' to enter the 'AUTOSCALE' menu.
- 12 Select 'OFF, BEST FIT, A4, A3, A2, A1' or 'A0' using the ⏮ or ⏭ button.
- 13 Press 'next/select' to confirm the required setting
- 14 Press 'Program' to exit the main menu.

Password

Because the printer may be operated in your work environment by users with differing skill levels, three menu access levels can be set for security reasons. The display menu allows fully authorized users to access these different printer menu levels, from the locked level to the full menu levels, by means of passwords.


The short menu level allows access to the display, cancel plot, media settings and plot menus, enabling users to set plot parameters, execute the printer test and demo plot, set the number of copies and cancel plots in progress. The password for the short menu is: ◀ ◀ 'previous' ▶ ▶.

The full menu level allows access to the display, plot, configuration, cancel plot and number of copies menus, as well as their sub-menus. The password for the full menu is: ◀ ▶ 'previous' ▶ ◀.

The locked level locks the entire printer. When this level is set, the printer acts only as an output device, receiving commands from your workstation via remote control. Although commands cannot be entered on the operating panel, informative messages are still displayed. The password for the locked menu is: 'previous' ◀ ▶ 'previous' ◀.



Setting the menu access level

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'DISPLAY' item using the  button.
- 3 Press 'next/select' to enter the 'DISPLAY' menu.
- 4 Select the required menu level using the ◀ or ▶ button.
- 5 Press 'next/select' to confirm.
- 6 Depending on the selected menu level, a password must be entered.
- 7 Press 'next/select' to confirm the password.
- 8 Press 'Program' to exit the main menu.

Dump configuration

Dumping the configuration is an easy way to obtain a list of the current print settings on paper.

Note: *The dump configuration cannot be performed while a file is being processed.*



Dumping the configuration

- 1 Press 'Program' to enter the main menu.
- 2 Select the 'CONFIGURATION' item using the ◀ or ▶ button.
- 3 Press 'next/select' to enter the 'CONFIGURATION' menu.
- 4 Select the 'UTILITIES' item using the ◀ or ▶ button.
- 5 Press 'next/select' to enter the 'UTILITIES' menu.
- 6 Select the 'DUMP CONFIG' item using the ◀ or ▶ button.
- 7 Press 'next/select' to confirm 'DUMP CONFIG'.
- 8 Press 'Program' to exit the main menu.

Service

This menu is intended only for the Océ service technician.

Chapter 9

Troubleshooting

This chapter describes problems that may occur while using the Océ 9400-II.



Troubleshooting the printer

This chapter documents problems that may occur with the Océ 9400-II, and describes how to solve them.

There are three types of printer warnings/errors:

- Warnings
- Operator-recoverable errors (printer)
- Machine-recoverable errors

Printer warnings

Warnings appear in the display. The printer will continue to print, but print quality may diminish.

Warnings	Description
<i>CONDITIONING</i>	The printer is measuring toner
<i>SHEET TOO SHORT</i>	The sheet fed into the manual feed is shorter than the print
<i>SHEET NOT FED</i>	Within the specified time-out, no sheet has been fed into the manual feed, and so the plot is canceled

Operator-recoverable errors (printer)

The printer stops immediately when it detects an operator-recoverable error. An error message displays on the panel. The user must take action to solve the problem.

Message	Description
<i>ERROR FEED TABLE</i>	Print media in feed table or feed table not closed Remove the paper and/or close the feed table
<i>PAPER REMOVED</i>	The paper has been removed from the feed table during a print
<i>PAPER TOO SHORT</i>	The print material is too short Remove the print media
<i>PAPER JAM</i>	Print media has jammed in the machine Remove the jammed media
<i>FEEDTABLE OPEN</i>	The feed table is not closed properly Close the feed table
<i>CUTTER ERROR</i>	The print media is not properly cut Remove the print media
<i>ROLL EMPTY</i>	The selected roll is empty Remove the empty roll and place a new roll of print media into the roll unit
<i>PAPER JAM ROLL</i>	Print media has jammed in the roll unit Remove the print media
<i>ROLLUNIT OPEN</i>	The roll unit is open Close the roll unit
<i>REFILL TONER</i>	Add toner
<i>OPEN ROLLUNIT</i>	Open the roll unit to remove the print media
<i>CHECK OUTPUT-TRAY</i>	Print media has jammed in the active output tray Remove the jammed print media and press Continue

Clearing paper jams

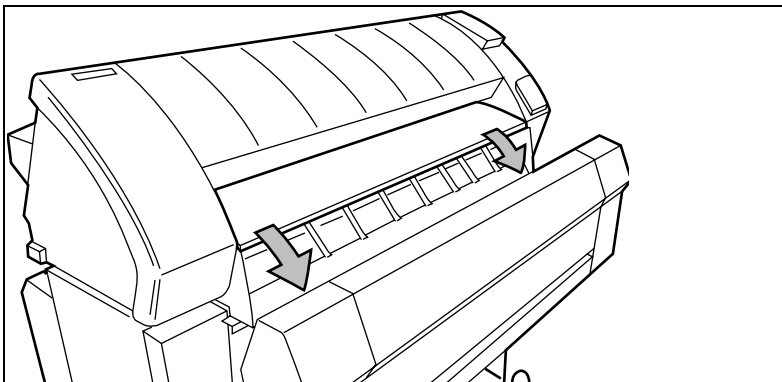
When a jam occurs, a message appears on the operating panel. If paper misfeeds occur frequently, make sure that:

- The roll(s) are loaded correctly and the media is fed as indicated.
- The correct media is used (see 'Copy material that can be used' on page 135).
- No scraps of material are blocking the paper path.



Clearing paper jams in the media feed section

- 1 Switch the printer off.
- 2 Open the cover of the roll unit.
- 3 Lower the feed table, using the two catches on the front of the printer underneath the feed table (see figure 33).



[33] Lowering the feed table

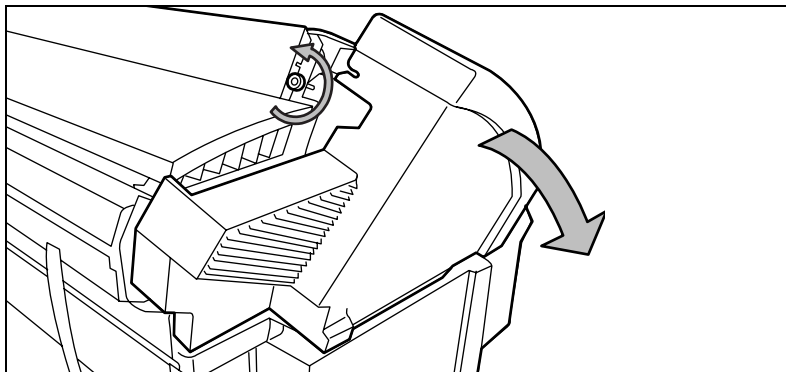
- 4 Remove the jammed material.
Note: Check thoroughly to make sure that no scraps of material remain.
- 5 Close the feed table.
- 6 Close the cover of the roll unit.
- 7 Turn the printer on.

If the paper jam cannot be cleared by opening the feed table, then open the fuser section.



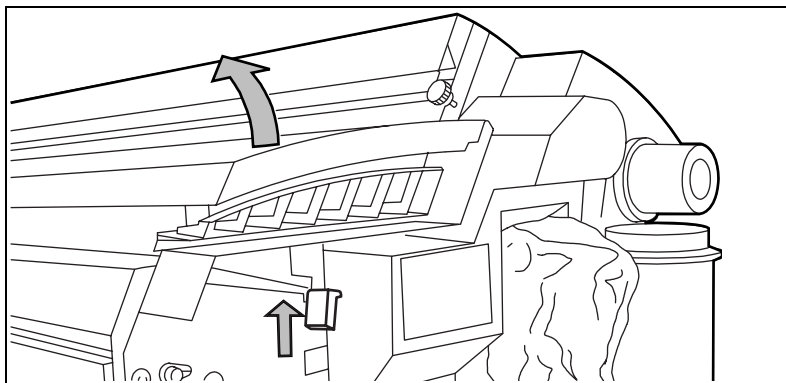
Clearing paper jams in the fuser section

- 1 Switch the printer off.
- 2 Unscrew the access nut on the left-hand side of the machine and open the cover (see figure e34).



[34] Unscrewing the access nut and opening the cover

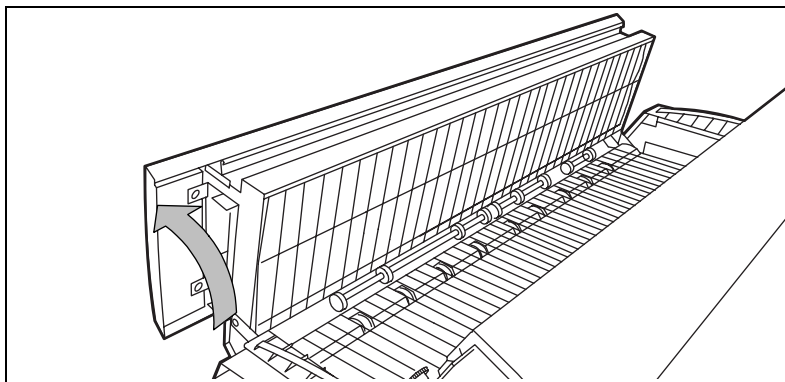
- 3 Lift the green handle (see figure 35).



[35] Lifting the green handle

- 4 Open the fuser unit (see figure 36).

Caution: *If the printer has been used recently, the fuser may be hot*



[36] Opening the fuser unit

- 5 Remove the jammed material.

Attention: *Be careful! The toner is not fused.*

- 6 Lift the green handle and close the fuser unit.
- 7 Close the left cover and tighten the access nut.
- 8 Turn the printer on.

Machine-recoverable errors

Machine recoverable errors are indicated by the appearance of a 4-digit error code in the display.



Solving a machine error

- 1 Turn off the printer and check the entire paper path. See 'Clearing paper jams' on page 120.
- 2 Then turn the printer on again.
If no error number appears in the display, you can continue printing.

If the machine error remains, call the key operator.

Troubleshooting the copier

When an error occurs, the scanner operating panel displays information about the nature of the problem:

- if the printer error indicator is on, a jam has occurred in the printer (see ‘Troubleshooting the printer’ on page 118) for information about how to solve the problem.
- if the display shows an error code letter E followed by an error code number, an original has jammed in the scanner (see ‘Clearing original jam’ on page 124)
- if the display shows a flashing 3-digit error code, a machine error has occurred in the scanner (see ‘Operator-recoverable scanner errors’ on page 124).

Scanner error

The machine stops immediately if the scanner detects an error. A flashing error code appears on the scanner operating panel.



Solving a scanner error

- 1 Turn off the scanner.
- 2 Turn it on again.

If no error number appears on the display, you can continue scanning.

Operator-recoverable scanner errors

Message	Description
<i>E1</i>	The original is in scanner when the machine is turned on
<i>E2</i>	Original too long
<i>E3</i>	Stop/Correction button pressed during original transport

Please wait

If the user wants to scan, but the printer is busy printing files or producing a copy job, the 'please wait' indicator will light up. This indicator will turn off when the printer is ready. Scanning will then begin.

Printer error

If the printer detects an error, the printer error indicator will light up. The indicator goes off when the error has been resolved. Scanning can then begin.

If a printer error occurs during scanning, the original will be fed in and the scanning procedure will be completed. No copy will be made.

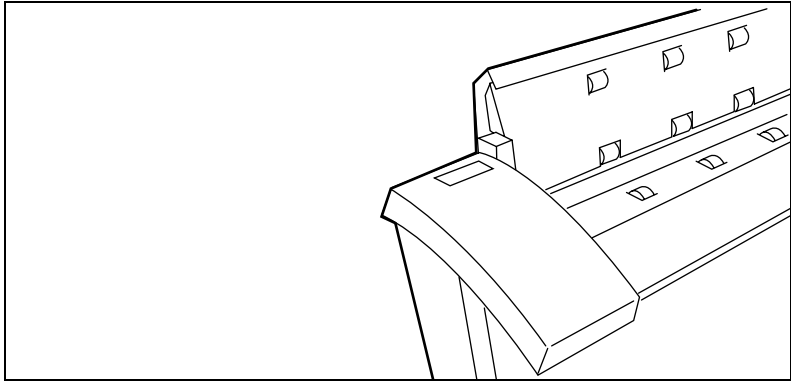
Clearing original jam

The machine stops immediately if the scanner detects an error. A flashing error code will be displayed on the scanner operating panel. This code consists of a letter E, followed by an error code number. The user must take action to solve the problem.

▼ **Clearing an original jam**

- 1 Unlock the top cover by pushing the front side of the cover down and pulling it towards you.

- 2 Raise the cover (see figure 37).



[37] Opening the top cover of the scanner

- 3 Remove the original.
- 4 Lower the top cover.
- 5 Lock the cover by pushing the front side down and pushing it back to the rear until you hear a click.
Note: *To ensure proper transport of originals, make sure that the cover is closed correctly.*
- 6 Press the 'stop/correction' button. The error message on the panel will disappear.

Cleaning the glass platen

If the glass platen is dirty or charged with static, it should be cleaned in order to obtain top quality copies. You can clean the white pressure platen at the same time.

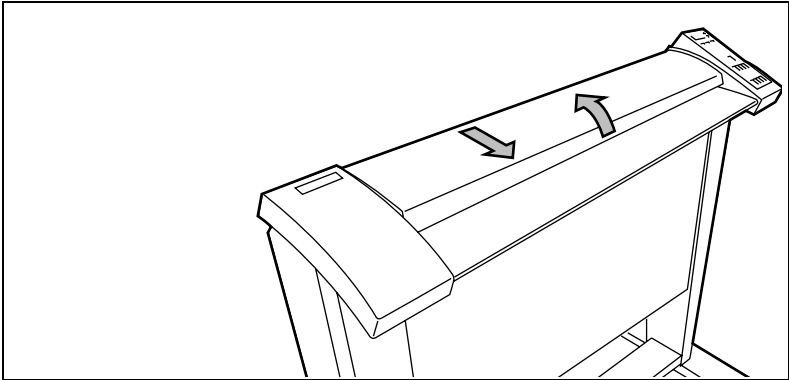
Attention *To achieve the best results, we recommend using Océ cleaner 'A'. (Code no. 1068117; Cleaner kit).*



Cleaning the glass platen and the pressure platen

- 1 Turn off the scanner.
- 2 Unlock the top cover by pushing the front side of the cover down and pulling it towards you.
- 3 Raise the cover (see figure 37).

- 4 Gently clean the glass platen and the white pressure platen with a soft cloth, moistened with a small amount of “Cleaner A” (see figure 38).
For safety information, see the safety data sheet in Appendix B.



[38] Cleaning the glass platen and the pressure platen

- 5 Lower the top cover.
- 6 Lock the cover by pushing the front side down and pushing it back to the rear until you hear a click.
Note: *To ensure proper transport of originals, make sure that the cover is closed correctly.*
- 7 Turn on the scanner.

Appendix A

Overview and tables



Product specifications for the printer

The Océ 9400-II is a wide-format, low- to mid-volume copying and printing system.

Printer

<i>Technolog</i>	electrophotography (LED head)
<i>Photoconductive dru</i>	organic photoconductor (OPC)
<i>Printing speed</i>	3 m/min (10 feet/min)
<i>Warm-up time</i>	none, once the printer is turned on
<i>Media feed</i>	manual and single- or double-roll automatic
<i>Toner syste</i>	closed
<i>Maximum printable area</i>	the maximum printable area depends on size of installed memory and file complexity, but can be up to 15 m (49 feet)
<i>Poster mode</i>	increases the density of the copy

Controller

<i>Standard memor</i>	64 MB
<i>Vector data formats</i>	HP-GL, HP-GL/2, CalComp 906/907, Edmics
<i>Raster data formats</i>	HP-RTL, Cals type 1, TIFF 6.0 G3 & G4, NIRS, C4-G4
<i>Language sensi</i>	automatic and via display panel
<i>Multicop</i>	up to 99
<i>Interfacing</i>	automatic switching: Centronics parallel Ethernet
<i>Ethernet</i>	Ethernet TCP/IP

■ Options

- Automatic double-roll unit
- Memory upgrade to 128 or 256 Mb
- PostScript level 2
- Print server for Novell and Ethertalk
- Scanner
- Scan-to-file software
- High-capacity delivery tray
- Compact Output Stacker
- Repro Desk print management software

The optional features can vary from one country to another.

Product specifications for the scanner

Scanner

<i>Free-standing un</i>	can only be used in combination with the printer engine
<i>Digital retention</i>	up to 19 copies from a single scan
<i>Digital zoom</i>	25-400% in fixed steps or 1% increments
<i>Paper selecti</i>	Roll 1, Roll 2, or Manual feed
<i>Automatic Background Compensation</i>	the standard setting is 'on,' but it can be turned off
<i>Leading/trailing edge correctio</i>	0 to 80 mm in increments of 5 mm 0 to 3" in increments of 0.25"
<i>Invert cop</i>	used to copy blueprints (limited to single copy only without ABC)
<i>Poster mode</i>	increases the density of the copy
<i>Image logic</i>	The Océ 9400-II makes use of Océ image logic technology. This technology ensures that the quality of every copy is automatically optimized.

Interfaces

Centronics protocol

Centronics supports P1284-compatible and ECP modes.

SCSI-2 protocol

When the printer is attached to a SCSI-bus, it functions as a standard SCSI tape device. SCSI tape commands are used to address the Océ 9400-II for upload.

Ethernet protocol

You can connect the printer to:

- TCP/IP
- NETBIOS (over TCP/IP).

Note: *Ethertalk/Novell can be supported by an optional external printserver.*

For more details, see 'Ethernet' on page

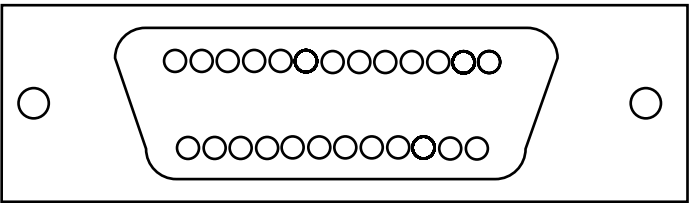
Centronics port configuration

The Centronics parallel port is located at the rear of the printer. It is a DB25 female connector.

The following table describes the Centronics port pin assignments. For further details, refer to the IEEE P1284 standard.

Printer Pin No.	Signal Name	
1	STROBE	
2	Data 1	Data 1 (LSB)
3	Data 2	Data 2
4	Data 3	Data3
5	Data 4	Data 4
6	Data 5	Data 5
7	Data 6	Data 6
8	Data 7	Data 7
9	Data 8	Data 8 (MSB)
10	ACKN	Acknowledge
11	BSY	Busy
12	PAPEROUT	Paper error
13	SELECT	Select
14	AUTOLFN	
15	FAULTN	Fault
16	INITN	Initialize
17	SELECTINN	Select in
18 - 25	GND	Ground

STROBE is the dialog signal.



[39] Centronics connector

SCSI-2 port configuration

The SCSI-2 connector is located on the optional SCSI board at the rear of the printer. It is a mini Subd 50-pin female connector.

The following table describes the SCSI port pin assignment. For further details, refer to the ANSI X3.131 standard.

Printer Pin No.	Signal Name
1 - 25	GND
26 - 34	SD10_N
35 - 37	GND
38	TERM_PWR
39	GND
40	GND
41	ATNO_N
42	GND
43	BSYO_N
44	ACKO_N
45	SELI_N
46	MSGO_N
47	SELO_N
48	CDO_N
49	REQO_N
50	IOO_N



[40] SCSI connector

Ethernet port configuration

The Ethernet connector is a 10/100 base T connector (RJ45). The following table describes the Ethernet RJ45 pin assignments.

Printer Pin No.	Signal Name
1	TD+
2	TD-
3	RD+
4	Common mode Term
5	Common mode Term
6	RD-
7	Common mode Term
8	Common mode Term

The following table describes the AUI connector (DB15 female with locking mechanism).

Printer Pin No.	Signal Name
1	GND
2	C+
3	T+
4	GND
5	R+
6	GND
7	No connect
8	GND
9	C-
10	T-
11	GND
12	R-
13	GND
14	+12VF
15	GND

Originals that can be used

Overview of originals

<i>Originals</i>	<i>Minimum</i>	<i>Maximum recommended</i>
Width	210 mm (8.5")	1020 mm (40"), of which an image width of 914 mm (36") can be copied without loss of information
Length	210 mm (8.5")	Guaranteed copy quality 3 meters or 10 feet. Maximum length limited by the worst-case speed difference between scanner and printer; at least > 6m (19 feet).

Important information concerning originals to be processed

<i>Curls</i>	<p>Originals with a curl diameter > 75mm (3") can be easily scanned.</p> <p>If the diameter of the curl is < 75 mm (3"), we recommend that you ask the operator to help you uncurl the leading edge to prevent problems.</p> <p>With originals with a curl diameter of < 50 mm (2"), a carrier sheet may be used (no thicker than 0.3 mm (about 0.012"))</p> <p>Dog-eared pages should be straightened, especially on originals with reinforced edges.</p>
<i>Damaged originals</i>	<p>Torn originals should be repaired with tape.</p> <p>Badly damaged originals can be copied by inserting them into carrier sheets.</p>
<i>Miscellaneous</i>	<p>The leading edge of the original must be straight.</p> <p>The thickness of the original may be no more than 1.5 mm (0.06").</p> <p>Filing strips with a thickness 3 mm (0.12").</p> <p>Any paper clips, staples, etc. should be removed from the original before feeding it into the scanner.</p> <p>Creased leading edges and trailing edges should be straightened.</p> <p>Paste-ups should be completely taped down at all edges; a carrier sheet may be used (no thicker than 0.3 mm [0.012"])</p> <p>Folded originals should be straightened before feeding.</p> <p>Wrinkles and folds may be visible on the copy.</p> <p>Feed in plotter originals in carrier sheets.</p>

Copy material that can be used

Océ machines and media are designed to complement each other for optimal quality and performance. We therefore recommend using only approved Océ media in the Océ 9400-II.

A full list of Océ materials suitable for use in the Océ 9400-II, including plain paper, transparencies, colored paper and various polyester films is available from your Océ representative.

The maximum length of the print material is 175 m (575 feet) when you use 20 lb. bond material and 140 m (460 feet) in the case of case of 30 lb. material. The diameter of the roll holder equals 3 inch..

Paper formats	Width
A0	841 mm (33.11")
A1	594 mm (23.39")
A2	420 mm (16.54")
A3	297 mm (11.69")
E	34"
D	22"
C-	17"
B	11"
E+	36"
D+	24"
C+	18"
B+	12"
30"	30"
500 mm (19.69"	500 mm (19.69")
700 mm (27.56"	700 mm (27.56")
B1	707 mm (28")

Overview of copy material

Copy material	Recommended	
Plain paper	20 lb. bond	
Transparent paper	27 lb	
Vellum	20 lb	
Polyester film	3.5 mil	
ECO papers	20 lb	
	Minimum	Maximum

Overview of copy material

Width	279 mm (11")	914 mm (36")
Length	420 mm (16.5") (A3)	Guaranteed print quality up to ca. 3 meters or 10 feet. This is also the limit for prints and multiple copies made on the Océ 9400-II. For single copies/prints made on the Océ 9400-II printer or hybrid, the maximum length may be up to 15 meters (about 50 feet), but the operator must take into account that the copy/print quality may not conform to all quality requirements.

Attention: *Paper and transparent media are sensitive to high humidity. To ensure optimal copy quality, keep all copy media in its original packaging, especially at night.*

Attention: *Curled sheets of print media must be fed in with the curl facing down to avoid damaging the drum.*

Overview of standard zoom formats

Standard zoom fixed steps ISO

<i>Original</i>	<i>Copy</i>				
	<i>A0</i>	<i>A1</i>	<i>A2</i>	<i>A3</i>	<i>A4</i>
<i>A0</i>	100	71	50	35	25
<i>A1</i>	141	100	71	50	35
<i>A2</i>	200	141	100	71	50
<i>A3</i>	283	200	141	100	71
<i>A4</i>	400	283	200	141	100

Standard zoom fixed steps, ANSI

<i>Original</i>	<i>Copy</i>				
	<i>34</i>	<i>22</i>	<i>17</i>	<i>11</i>	<i>8¹/₂</i>
<i>34</i>	100	65	50	32	25
<i>22</i>		100		50	
<i>17</i>	200	129	100	65	50
<i>11</i>		200		100	
<i>8¹/₂</i>	400	259	200	129	100

Standard zoom fixed steps, Architectural

<i>Original</i>	<i>Copy</i>				
	<i>36</i>	<i>24</i>	<i>18</i>	<i>12</i>	<i>9</i>
<i>36</i>	100	67	50	33	25
<i>24</i>		100		50	
<i>18</i>	200	133	100	87	50
<i>12</i>		200		100	
<i>9</i>	400	267	200	133	100

Order of standard sizes for using standard cut

ISO		ANSI		ARCH	
A0	(841x1189 mm)	34"	(34x44")	36"	(36x48")
A1	(594x841 mm)	22"	(22x34")	24"	(24x36")
A2	(420x594 mm)	17"	(17x22")	18"	(18x24")
A3	(297x420 mm)	11"	(11x17")	12"	(12x18")
34	(34x44")	36"	(36x48")	34"	(34x44")
22	(22x34")	24"	(24x36")	22"	(22x34")
17	(17x22")	18"	(18x24")	17"	(17x22")
11	(11x17")	12"	(12x18")	11"	(11x17")
36	(36x48")	30"	(30x42")	30"	(30x42")
24	(24x36")	A0	(841x1189 mm)	A0	(841x1189 mm)
18	(18x24")	A1	(594x841 mm)	A1	(594x841 mm)
12	(12x18")	A2	(420x594 mm)	A2	(420x594 mm)
30	(30x42")	A3	(297x420 mm)	A3	(297x420 mm)
500 mm	(500x707 mm)	500 mm	(500x707 mm)	500 mm	(500x707 mm)
700 mm	(700x1000 mm)	700 mm	(700x1000 mm)	700 mm	(700x1000 mm)
B1	(707x1000 mm)	B1	(707x1000 mm)	B1	(707x1000 mm)

Note: This table presents the order of standard sizes displayed on the scanner when using standard cut. The order depends on the printer operating panel setting. See ‘The printer operating panel’ on page 11.

Appendix B

Controller firmware upgrade



Controller firmware upgrade

Note: Please refer to the Océ website (www.oce.com) to obtain the most recent firmware.

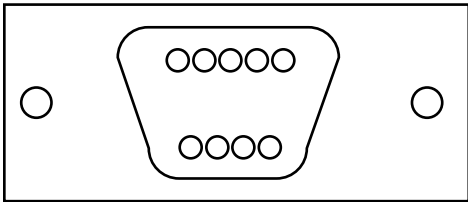
The Océ 9400-II offers you the ability to upgrade the firmware version of the controller by uploading the firmware through the Centronics port. You must connect a terminal to the controller port **Com 1**. This terminal will display explicit messages indicating the procedure to follow.

The displayed messages are only in English, although your printer is setting up to another language.

▼ **Connecting to the printer controlle**

- 1 Turn off the machine.
- 2 Connect a Centronics cable between the controller and your host.
- 3 Connect a serial cable between the controller and your host. The controller has a DCE (COMM) port; therefore, if your host is a PC/Workstation you must use a crossed cable.

Com 1	Printer description
Sub-DB9	MALE
Pin 1	DCD
Pin 2	RXD
Pin 3	TXD
Pin 4	DTR
Pin 5	GND
Pin 6	DSR
Pin 7	RTS
Pin 8	CTS
Pin 9	RI



[41] Com 1 connector

- 4 Open a terminal session on your host (e.g. WINDOWS terminal) with the following settings:

<i>baud rate</i>	9600
<i>data b</i>	8
<i>stop b</i>	1
<i>parity</i>	none
<i>flow control</i>	none

- 5 Turn the printer on.
- 6 You will be prompted to press the CTRL-P key with the following message:
“Press CTRL-P to update the application / fls/EPC-M1.....”

You have 5 seconds to press this key, otherwise the controller will not update the firmware.

- 7 When CTRL-P is pressed, you are prompted to confirm your choice.
“You have pressed CTRL-P key”
“Do you confirm to update the file application /fls/EPC-M1?”
“Y confirm / N cancel”

- 8 If you press N, the controller will start with its current firmware version.
- 9 If you press Y, you are prompted to send the new firmware file through the Centronics port:
“Transfer controller software through the Centronics port”.

- 10 Send the new firmware file from your host, e.g. on a DOS session on a PC:
copy /b EPC-M1_1.0.ld lpt1

- 11 The following messages allow you to monitor the progress on the terminal window:
“Loading file”
“Transfer progress xx%”
“Transfer successful, checksum 0x.....”
“Writing to Flash”
“Erase Flash done”
“Writing progress: xx%”
“Done”
“Operation Complete”
“Transfer successful”
“Turn machine OFF then ON to apply modifications”

- 12 Turn the printer off.

- 13** Disconnect the terminal and the serial cable.
- 14** Turn on the machine. The new firmware is operational.

Troubleshooting

If you do not send the correct file, if the file is corrupted, or if you switch off the printer during the upgrade procedure, you will be prompted with an error message and asked to upgrade again. See step 9 of the above procedure.

Appendix C

Safety information



Instructions for safe use

Océ machines and materials have been developed and tested in accordance with the strictest international safety standards. To ensure your safety while working with these products, it is important that you observe the following safety rules:

- Do not remove any screws from fixed panels.
- The machine is not user-serviceable except for the components and maintenance materials mentioned in this manual.
- Do not place any liquids on the machine.
- Use maintenance materials or other materials for their intended purpose only. Keep maintenance materials out of the reach of children.
- Do not mix cleaning fluids or other materials.
- To avoid risks, all modifications to Océ equipment must be performed only by Océ service personnel. We recommend that you use attachment cables specified by Océ.
- The printer has been fitted with an ozone filter.
- Do not bridge any mechanical or electrical circuit breakers.
- Do not use an extension cord to connect the machine.
- Locate the machine close to an electrical outlet that is easily accessible.
- The switch in the fixed connection (if any) should be easily accessible.
- This machine has not been designed for connection to an IT power system. (An IT power system is a voltage network in which the neutral wire is grounded).
- Do not block the ventilation openings of the machine.
- Make sure that the machine is placed on a level, horizontal surface, stable and strong enough to support the weight of the machine. See the Océ 9400-I safety data sheet in this appendix for information about the weight of the machine.
- Make sure that there is sufficient space around the machine. This facilitates reloading materials as well as maintenance.
- Do not place the machine in rooms which are subject to excessive vibration.
- Do not place the machine in rooms which are too small or insufficiently ventilated. See the Océ 9400-II safety data sheet in this appendix for information about space and ventilation requirements.
- Always use materials recommended by Océ and developed for this Océ machine. Materials not approved by Océ may result in machine failures.
- Do not use the machine if it makes unusual sounds. Remove the plug from the electrical outlet and contact Océ Customer Service.


Safety data sheets

Disclaimer The disclaimer below is valid for all safety data sheets in this manual.

These safety data sheets have been compiled to the best of our knowledge as a compact guide to safe handling of this product. We reserve the right to revise safety data sheets as new information becomes available. It is the user's responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary, and to contact the company to make sure that the sheet is the latest one issued. If and in so far as limitation of liability is permitted under the applicable laws, we do not accept liability for any inaccuracy that may occur in this information.



Safety data sheet Océ 9400-II for the printer

PRODUCT SAFETY DATA SHEET



Number
Date

E-661-e-US
March 1999

Model		Océ 9400/9400-II Printer	
Description		Electrostatic printer, instant printing, console model, plain paper, organic photoconductive drum, powder toner	
Max. process speed		3 m/min	
Dimensions	Width	1 roll 1352 mm	2 roll 1352 mm
	Depth	918 mm	918 mm
	Height	1251 mm	1251 mm
Weight		149 kg	159 kg
Voltage		115 V	
Frequency		60 Hz	
Current-rated		15 A	
Current-max		20 A	
Power consumption		1500 W at continuous operation	
Power consumption, stand by		46 W	
Mains connection		Cable with plug	
Safety class		I (IEC 536) Protective earth connection	
Protection class		IP 20 (IEC 529)	
Sound pressure level (at bystander position)		Stand by 0 dB(A)	In operation main body 51 dB(A) impulse $\Delta L_1 = 2$ dB(A)
Sound power level		0 dB(A) main body 61 dB(A)	
Radio interference		Complies with FCC rules and regulations, part 15 class A	
Radiation		Below the Threshold Limit Values for UV, Visible and IR radiation (TLV list of ACGIH)	
Heat emission		Standby 46 W; at continuous operation 1500 W	
Ozone emission		0,02 mg/min at continuous operation	
Room volume		Recommendation: min. 25 m ³	
Room ventilation		Recommendation: min. 12,5 m ³ /h (natural ventilation)	
Use simulation at random operation		With a room volume and ventilation as recommended and a daily volume of 100 m (much more than average) the use simulation at random operation gives the following ozone concentrations: - Time weighted average 0,002 mg/m ³ (0,001 ppm) - Peak 0,008 mg/m ³ (0,004 ppm) <i>Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone</i> 0,2 mg/m ³ (0,1 ppm) <i>Odour Perception Limit for ozone</i> 0,04 mg/m ³ (0,02 ppm)	
Consumables		Océ OPC Drum (Océ Safety Data Sheet E-218) Océ B4 Toner (Océ Safety Data Sheet E-196) Océ D4 Developer (Océ Safety Data Sheet E-197) Océ Copying Materials. This apparatus is suitable for processing recycling paper. Ask Océ for suitable recycling paper.	
Additional safety information		The ozone filter does not have to be replaced to keep the ozone concentration in the workplace below 0,04 mg/m ³ (i.e. the life of the filter equals that of the apparatus).	
Listed according to standard UL 1950		Listed according to standard CAN/CSA-C22.2 No. 950	
			

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The contents of this safety data sheet are subject to the disclaimer on page 145 of this manual.

Safety data sheet for the Océ 9400-II Printer and Scanner

PRODUCT SAFETY DATA SHEET



Number E-685-b-US
Date March 1999

Model	Océ 9400/9400-II Printer - Océ 9400/9400-II Scanner			
Description	Multifunction device, instant copying/printing, consisting of an electrostatic printer, console model, plain paper, organic photoconductive drum, powder toner and a free standing scanner, maximum original size 1020 mm x 3000 mm.			
Max. process speed	3 m/min			
Dimensions		Printer		Scanner
Width		1 roll	2 roll	
Depth		1352 mm	1352 mm	1240 mm
Height		918 mm	918 mm	615 mm
Weight		1251 mm	1251 mm	1105 mm
		149 kg	159 kg	60 kg
Voltage		115 V		115 V
Frequency		60 Hz		60 Hz
Current-max		15 A		1,1 A
Power consumption		20 A		2 A
Power consumption, stand by		1500 W at continuous operation		90 W at continuous operation
EPA Energy Star®		46 W		3,2 W
* Power consumption, sleep mode		49,2 W (printer + scanner). Default time 1 minute.		
Mains connection		Cable with plug		
Safety class		I (IEC 536) Protective earth connection		
Protection class		IP 20 (IEC 529)		
Sound pressure level (at bystander/operator position)		Stand by 0 dB(A)	In operation main body 51 dB(A) impulse $\Delta L_1 = 2$ dB(A)	Stand by 0 dB(A)
Sound power level		0 dB(A)	main body 61 dB(A)	main body 48 dB(A) impulse $\Delta L_1 = 5$ dB(A)
Radio interference		Complies with FCC rules and regulations, part 15 class A		
Radiation		Below the Threshold Limit Values for UV, Visible and IR radiation (TLV list of ACGIH)		
Heat emission		Printer 1500 W, scanner 90 W at continuous operation		
Ozone emission printer		0,02 mg/min at continuous operation		
Room volume		Recommendation: min. 25 m ³		
Room ventilation		Recommendation: min. 12,5 m ³ /h (natural ventilation)		
Use simulation at random operation		With a room volume and ventilation as recommended and a daily volume of 100 m (much more than average) the use simulation at random operation gives the following ozone concentrations:		
		- Time weighted average	0,002 mg/m ³	(0,001 ppm)
		- Peak	0,008 mg/m ³	(0,004 ppm)
		<i>Threshold Limit Value/Occupational Exposure Limit (Time Weighted Average) for ozone</i>		
		<i>Odour Perception Limit for ozone</i>	0,2 mg/m ³	(0,1 ppm)
			0,04 mg/m ³	(0,02 ppm)
Consumables		Océ OPC Drum (Océ Safety Data Sheet E-218) Océ B4 Toner (Océ Safety Data Sheet E-196) Océ D4 Developer (Océ Safety Data Sheet E-197) Océ Copying Materials. This apparatus is suitable for processing recycling paper. Ask Océ for suitable recycling paper.		
Additional safety information		The ozone filter does not have to be replaced to keep the ozone concentration in the workplace below 0,04 mg/m ³ (i.e. the life of the filter equals that of the apparatus).		
	Listed according to standard UL 1950	Listed according to standard CAN/CSA-C22.2 No. 950	EPA MFD Compliance	
				

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The contents of this safety data sheet are subject to the disclaimer on page 145 of this manual.

EPA ENERGY STAR®

Océ-Technologies B.V. has joined the ENERGY STAR® Program of the United States Environmental Protection Agency (EPA). The purpose of the ENERGY STAR® Program is to promote the manufacture and marketing of energy-efficient equipment, thereby potentially reducing combustion-related pollution.

Using the energy management features outlined below prevents unnecessary power consumption, which helps to prevent air pollution produced by electricity-generating power plants and saves money on your utility bills.

The Océ 9400-II is a multifunction device which includes the following separate units:

1. Océ 9400 series printer
2. Océ 9400 series scanner

As an ENERGY STAR® Partner, Océ-Technologies B.V. has determined that this multifunction device model meets the ENERGY STAR® guidelines for energy efficiency.

The EPA ENERGY STAR® criteria for this multifunction device involve the following features:

sleep mode The use of the sleep mode feature offers economic and environmental benefits. This multifunction device is shipped with the sleep mode default time set at 1 minute, which means that the device automatically enters the sleep mode 1 minute after the last copy/print is made.

The sleep mode default time is a fixed value and cannot be adjusted.

The sleep mode recovery time is less than 1 second, after which copying or printing can be resumed (“instant copying/printing”).

recycled paper The use of recycled paper also benefits the environment. This multifunction device is designed to use recycled paper. Product literature on recommended types of recycled copier paper can be obtained from your local Océ company or Océ Headquarters (Océ-Technologies B.V.) in Venlo, the Netherlands.

ENERGY STAR® is a U.S. registered mark



Appendix D

Miscellaneous



How to read this manual

The consistent style that is used in this manual enables you to quickly become familiar with the use of this manual and ultimately the Océ 9400-II.

Description Each section or subsection contains a description of the feature or operation identified in the title. It might also include possible applications, as well as any guidelines that you should bear in mind.

Procedures A description is followed by a procedure. A procedure always begins with a phrase which briefly describes the procedure, followed by a series of numbered steps that take you, step by step, through all phases of performing the operation.

Figures and tables Figures and tables are titled and numbered sequentially throughout this manual. Figures include pictures of product components, screen dumps, examples, and diagrams of concepts discussed in the description.

Attention getters There are several types of information to which we draw your attention. This information is classified as follows:

Note: *In a 'Note', information is given about matters which ensure the proper functioning of the machine or application, but useful advice concerning its operation may also be given.*

Attention: *The information that follows 'Attention' is given to avoid damage to your copy or original, the copier or printer, data files, etc.*

Caution: *The information that follows 'Caution' is given to prevent you suffering personal injury. .*

User survey

Did you find this manual to be accurate?

- ☐ Yes
- ☐ No

Were you able to operate the product after reading this manual?

- ☐ Yes
- ☐ No

Does this manual provide adequate background information?

- ☐ Yes
- ☐ No

Is the format of this manual convenient in size, easy to read and layed out well?

- ☐ Yes
- ☐ No

Did you find the information you were looking for?

- ☐ Always
- ☐ Most of the times
- ☐ Sometimes
- ☐ Not at all

How did you find the information you were looking for?

- ☐ Table of contents
- ☐ Index
- ☐ Neither

Are you satisfied with this manual?

- ☐ Yes
- ☐ No

Thank you for evaluating this manual.

If you have any other comments or concerns, please explain them on the following page.

7137099

Comments:

Date:

This reader's comment sheet is completed by:

Name (optional):

Occupation:

Company:

Phone:

Address:

City:

Country:

Please return this sheet to:

Océ-Technologies B.V.
Attn: ITC-User Documentation
P.O. Box 101
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Send you comments by E-mail to : itc-userdoc@oce.nl

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